

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

1727 30th Street MS-43

P.O. BOX 168041

SACRAMENTO, CA 95816-8041

FAX (916) 227-6214

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*Flex your power!
Be energy efficient!*

November 8, 2011

08-Riv-91-15.6/21.6

08-448404

Project ID 0800000712

CMLN-6208(009)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN RIVERSIDE COUNTY IN RIVERSIDE FROM ADAMS STREET TO THE ROUTE 60/215 SEPARATION.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Thursday, November 17, 2011.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, and the Bid book.

Project Plan Sheets 19, 37, 40, 41, 122, 123, 144, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 209, 214, 215, 285, 286, 313, 314, 324, 325, 328, 352, 353, 396, 397, 400, 401, 439, 440, 441, 443, 447, 449, 450, 451, 452, 457, 459, 460, 461, 466, 469, 473, 633, 707, 757, 777, 778, 779, 781, 785, 786, 787, 791, 796, 926, 1000, 1001, 1044, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1176, 1178, 1179, 1180, 1182, 1184, 1187, 1188, 1240, 1487, 1488, 1489, 1490, 1491, 1492, 1497, 1498, 1499, 1500, 1501, 1684, 1685, 1696, 1697, 1708, 1723, 1725, 1816, 1817, 1826, 1829, 1912, 1921, 1926, 1927, 1941, 1983, 1992, 1994, 1995, 2009 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 198A, 198B, 198C, 198D, 198E, 198F, 198G, 198H, 198I, 198J, 198K, 198L, 198M, 198N, 198O, 198P, 198Q, 198R and 798A are added. Copies of the added sheets are attached for addition to the project plans.

Project Plan Sheets 29, 105, 117, 207, 238, 585, 668 and 714 are deleted.

In the Notice to Bidders and Special Provisions, in the "STANDARD PLANS LIST," the following Standard Plans are added:

"A77L5, and A82A1."

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In the Special Provisions, Section 2-1.04, "SSPC QP CERTIFICATION PREAWARD QUALIFICATION," is added as follows:

"Submit the SSPC QP certification required for cleaning and painting in these special provisions.

If you do not submit the certification with your bid, submit it so that it is received by the Office Engineer no later than 4:00 p.m. on the 2nd business day after bid opening.

If you do not submit the certification within the specified time, the Department finds your bid nonresponsive."

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES," the second and third paragraphs are revised as follows:

"Additional damages to those specified in Section 8-1.07, "Liquidated damages," of the Standard Specifications are \$ 1,500 per day starting on the 1st day after exceeding the number of working days bid until work requiring lane or shoulder closures on State Highway Route 91 is complete.

Complete the plant establishment work within 250 working days starting on the 1st working day after exceeding the number of working days bid."

In the Special Provisions, Section 5-1.16, "NONHIGHWAY FACILITIES (INCLUDING UTILITIES), is revised as attached.

In the Special Provisions, Section 10-1.02, "ORDER OF WORK," the second paragraph is deleted.

In the Special Provisions, Section 10-1.02, "ORDER OF WORK," the table in the seventh paragraph is revised as attached.

In the Special Provisions, Section 10-1.02, "ORDER OF WORK," the fifteenth, sixteenth, seventeenth, eighteenth, nineteenth, twentieth, twenty-first, and twenty-second paragraphs are revised as follows:

"Before work on the Riverside Canal can begin, approval will be given in writing by the City's Operations Manager and the Engineer contingent upon the review and acceptance of a detailed schedule of the work to be performed on the canal and a contingency plan. A plan for a by-pass system, approved by the City RPU Water Operations Manager and the Engineer, shall be provided and installed at no cost to the Department nor City.

The contingency plan provided by the Contractor shall include and explain how storm water flow that would normally be conveyed by the canal will be handled and what equipment shall be installed and operated, at no cost to the Department nor City.

Once the contingency plan, by pass system, and schedule are approved by the Water Operations Manager and the Engineer, a written 14 calendar day advance notice of the date work will begin, will be submitted to the Water Operations Manager and Engineer.

The contractor shall maintain delivery of all the water conveyed by the canal at all times. The contractor shall anticipate minimum RPU Water delivery rates of twelve (12) cubic feet per second (cfs) of water at Drainage System DS 79 (Olivewood Booster Station-Gage Exchange), and four (4) cfs from Drainage System DS 79 (Olivewood Booster-Gage Exchange) through Drainage System DS 33 (N of Indiana & W of Arlington). These flow rates do not include additional runoff amounts conveyed by the canal attributed to storm runoff. In any instance, if the contractor does not maintain the flow through the canal, the contractor will be assessed \$2000 per day at DS 79, and \$1000 per day from Drainage System DS 79 through Drainage System DS 33. No pro-rated allowance will be given to the Contractor.

The Contractor shall not perform work on Drainage System 96 (Riverside Canal Turnout) until the work being performed on all other portions of the Riverside Canal is complete. There shall be no exceptions.

Payment for providing a detailed schedule, contingency plan and bypass system and canal dewatering are included in the included in the items of work involved in constructing Drainage Systems 33, 79 and 130 and no additional payment will be made."

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In the Special Provisions, Section 10-1.02, "ORDER OF WORK," the following paragraphs, fortieth, forty-first, forty-second, and forty-third are deleted:

"No simultaneous lane reductions are allowed at Central Avenue and Arlington Avenue. The abutment widening at Central Avenue should be completely finished, and the temporary railing (Type K) removed, before placing temporary railing (Type K) at Arlington Avenue for abutment work or reprofiling. No night closures at Central Avenue and Arlington Avenue are allowed during girder placement, while either street has lane reductions.

Ivy Street Overcrossing and Ivy Street Overhead cannot be closed at the same time. Also, access to the Cridge Street Overcrossing cannot be closed while either Ivy Street Overcrossing or Ivy Street Overhead Bridge is closed.

Continuous access to the City Pump Plant at parcel 20419 and to the Cell Tower at parcel 20418 shall be provided from Ivy Street during construction.

Closures at the 14th Street Ramps, University EB Off Ramp and WB 9th/10th Street On Ramps, shall not occur during the City's Festival of Lights at the Mission Inn, from Thanksgiving Day to New Year's Day."

In the Special Provisions, Section 10-1.02, "ORDER OF WORK," the forty-seventh paragraph is revised as follows:

"Within the temporary construction easement (parcel 20420-3) in the City of Riverside property located next to Pachappa Overhead on the WB side of Route 91, the Contractor shall only use temporary water supply line above ground. No underground temporary water supply line or other underground utilities are allowed."

In the Special Provisions, Section , "10-1.02, "ORDER OF WORK," the following paragraphs are added after the last paragraph.

"Attention is directed to the parcel located at:

Temporary Construction Easement 20417-2, Route 91, from approximately 163' Right of Station 298+06 to approximately 120' Right of Station 310+77.

This parcel is needed by RPU Water for the relocation of their facilities that are in conflict with the project. It is anticipated that this parcel will be available to the contractor by March 15, 2012.

Attention is directed to the parcels located at:

FEE 20413-1, Route 91, from approximately 117' Right of Station 273+59 to approximately 138' Right of Station 284+24.

Temporary Construction Easement 20413-3, Route 91, from approximately 151' Right of Station 273+52 to approximately 150' Right of Station 277+51.

FEE 20413-4, Route 91, from approximately 235' Right of Station 277+79 to approximately 163' Right of Station 282+01.

FEE 20414-1, Route 91, from approximately 138' Right of Station 284+24 to approximately 150' Right of Station 289+28.

FEE 20414-2, Route 91, from approximately 157' Right of Station 284+91 to approximately 211' Right of Station 289+73.

FEE 20425-1, Route 91, from approximately 155' Right of Station 378+67 to approximately 121' Right of Station 382+20.

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These parcels are needed by RPU Water for the relocation of their facilities that are in conflict with the project. It is anticipated that these parcels will be available to the contractor by March 31, 2012.

Attention is directed to the parcels located at:

FEE 20418-1, Route 91, from approximately 100' Right of Station 320+57 to approximately 100' Right of Station 320+63.

Temporary Construction Easement 20418-2, Route 91, from approximately 100' Right of Station 317+55 to approximately 100' Right of Station 320+57.

These parcels are needed by RPU Water for the relocation of their facilities that are in conflict with the project. It is anticipated that these parcels will be available to the contractor by July 1, 2012.

Attention is directed to the parcel located at:

Temporary Construction Easement 20417-4, Route 91, from approximately 138' Right of Station 299+80 to approximately 119' Right of Station 306+40.

This parcel is needed by RPU Water for the relocation of their facilities that are in conflict with the project. It is anticipated that this parcel will be available to the contractor by October 15, 2012.

In the event that the parcels mentioned above are not available to the Contractor by the date specified and, if in the opinion of the Engineer, the Contractor's operations are delayed by reason of the parcels not being available to the Contractor by the date specified, the State will compensate the Contractor for the delays to the extent provided in Section 8-1.09, "Right of Way Delays" of the Standard Specifications.

Attention is directed to the parcels located at:

Drainage Easement 20885-1, Jane St, from approximately 21' Left of Station 26+44 to approximately 79' Right of Station 26+56.

Temporary Construction Easement 20885-2, Jane St, from approximately 45' Left of Station 26+41 to approximately 21' Left of Station 26+44.

FEE 20442-1, Route 91, from approximately 88' Right of Station 338+65 to approximately 113' Right of Station 339+53.

Temporary Construction Easement 20442-2, Route 91, from approximately 100' Right of Station 317+55 to approximately 79' Right of Station 324+65, and from approximately 240' Right of Station 318+54 to approximately 250' Right of Station 323+32.

Footing Easement 20442-3, Route 91, from approximately 200' Right of Station 343+85 to approximately 300' Right of Station 345+48.

Temporary Construction Easement 20442-4, Route 91, from approximately 122' Right of Station 341+08 to approximately 300' Right of Station 345+48.

Temporary Construction Easement 20442-5, Route 91, from approximately 138' Right of Station 330+42 to approximately 605' Right of Station 356+41.

It is anticipated that these parcels will be available by April 30, 2012.

Attention is directed to the parcels located at:

Ingress/Egress Easement 20712-1, Route 91, from approximately 227' Left of Station 341+42 to approximately 78' Left of Station 342+91."

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In the Special Provisions, Section 10-1.442, "GEOSYNTHETIC REINFORCED EMBANKMENT," is added as attached.

In the Special Provisions, Section 10-1.445, "SUB BALLAST," is added as attached.

In the Special Provisions, Section , "10-1.67, "PILING," subsection "GENERAL," the following paragraph is added after the second paragraph:

"Concrete for cast-in-place concrete piling shall be prequalified in conformance with the provisions in Section 90-9, "Compressive Strength," of the Standard Specifications."

In the Special Provisions, Section , "10-1.67, "PILING," subsection "MEASUREMENT AND PAYMENT (PILING)," the second paragraph is revised as follows:

"Except for cast-in-place concrete piling for sign foundations, payment for cast-in-place concrete piling shall conform to the provisions in Section 49-6.02, "Payment," of the Standard Specifications and these special provisions except that when the diameter of cast-in-place concrete piling is shown on the plans as 24 inches or larger, reinforcement in the piling will be paid for by the pound as bar reinforcing steel (bridge)."

In the Special Provisions, Section 10-1.124., "METAL BEAM GUARD RAILING," subsection "ALTERNATIVE IN-LINE TERMINAL SYSTEM," is added as attached.

In the Special Provisions, Section 10-1.124., "METAL BEAM GUARD RAILING," subsection "ALTERNATIVE FLARED TERMINAL SYSTEM," is added as attached.

In the Special Provisions, Section 10-1.1285., "CRASH CUSHION (TYPE CAT)," is added as attached.

In the Bid book, in the "Bid Item List," Items 34, 35, 46, 52, 71, 77, 81, 85, 87, 91, 117, 121, 152, 153, 154, 159, 161, 166, 188, 189, 190, 209, 210, 234, 248, 249, 252, 254, 258, 259, 261, 263 and 273 are revised, Items 57, 58, 283, 285 and 286 are deleted as attached.

To Bid book holders:

Replace pages 4, 5, 6, 7, 8, 9,10, 11, 12, 13, 14, 15, 16 and 17 of the "Bid Item List" in the Bid book with the attached revised pages 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 and 17 of the Bid Item List. The revised Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

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This addendum and its attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/08/08-448404

If you are not a Bid book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



FDR

REBECCA D. HARNAGEL
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

5-1.16 NONHIGHWAY FACILITIES (INCLUDING UTILITIES)

The utility owner will relocate a utility shown in the following table before the corresponding date shown:

Utility Relocation and Date of the Relocation

Utility	Location	Date
ATT		
1. Relocate: Before construction ATT Line	U-6 BROCKTON AVE & 91 FREEWAY Lt 73.51' STA 238+79.71 "GE1"	12/31/2011
2. Relocate: Before construction ATT Line for DS # 35	U-7 INDIANA & ARLINGTON From Rt 322.42' STA 261+40.28 to Rt 237.29' STA 261+58.16 "GE1"	12/31/2011
3. Relocate ATT CAB 4022 Before construction	U-7 INDIANA STA. 253+34.35 " GE1" RT 251.60'	12/31/2011
4. Relocate Before construction ATT CAB 4655, CAB 4656, CAB 4657	U-7 INDIANA STA. 255+62.89 " GE1" RT 249.39'	12/31/2011
5. RPU POLE 50-J34500-87 WILL RELOCATE before construction. RELOCATED POLE TO BE PROTECTED BY CONTRACTOR	U-8 JANE Rt 608' STA 252+30.02 "GE1"	12/31/2011
6. Relocate: Before construction CABINET CAB 4552	U-8 JANE From Rt 755.02' STA 252+26.59 "GE1"	12/31/2011
7. Relocate: Before construction CABINET CAB 4553	U-8 JANE From Rt 769.52' STA 252+23.92 "GE1"	12/31/2011
8. Relocate: Before construction. TEL M.H.5687 TO AREA BEHIND CURB BY ATT, RELOCATED M.H. TO BE Protected in place BY CONTRACTOR	U-9 ARLINGTON & 91 EB ON RAMP Rt 217' STA 263+53.84 "GE1"	12/31/2011
9. Relocate; Before construction. GUY WIRE FOR PP737417H BY ATT Protect in place BY CONTRACTOR	U-9 WB 91 OFF RAMP & RIVERSIDE DR From Lt 116.85' STA 265+09.58 to Lt 214.41' STA 266+51.96 "GE1"	12/31/2011

10. DROP SECTION BELOW BY ATT BEFORE CONSTRUCTION	U-9 WB 91 OFF RAMP & RIVERSIDE DR From Lt 234.25' STA 265+24.95 to Lt 174.21' STA 266+20.92 "GE1"	12/31/2011
11. Abandon line Before construction	U-10 RW 280 From Rt 76.3' STA 276+76.09 to Rt 139.88' STA 277+34.91 "GE1"	12/31/2011
12. Abandon ATT Line Before construction	U-9 RW 267 Lt 98.05' STA 270+57.67 "GE1"	12/31/2011
13. Abandon ATT Line Before construction	U-10 RW 267 Lt 88.5' STA 276+49.33 "GE1"	12/31/2011
14. Abandon ATT Line Before construction	U-11 MINI STORAGE From Rt 241.76' STA 294+47.55 to Lt 136.09' STA 299+60 "GE1"	12/31/2011
15. ATT LINE ON RPU POLE PP34100J WILL BE RELOCATED BY RPU, before construction.	U-11 RW 281 From Lt 178.86' STA 287+88.51 to Lt 221.44' STA 289+04.26 "GE1"	12/31/2011
16. Relocate .M.H. Before Construction	U-11 CENTRAL & 91 EB ON RAMP Rt 253.03' STA 294+08.54 "GE1"	12/31/2011
17. ELMH 10255 Relocate: Before construction	U-11 CENTRAL & 91 EB ON RAMP Rt 228.09' STA 293+84.51 "GE1"	12/31/2011
18. PP 15716J WILL BE RELOCATED BY RPU Relocate .Before construction	U-14 NEXT TO LAND FILL Lt 137.87' STA 335+28.91 "GE1"	12/31/2011
19. ATT Line Relocate before construction	U-19 14th STREET BRIDGE From Rt 139.31' STA 373+67.52 to Lt 196.58' STA 375+30.97 "GE1"	12/31/2011
20. ATT LINES Relocate before construction	U-19 14th STREET & VINE From Lt 282.01' STA 373+34.43 to Lt 187.7' STA 374+65.84 "GE1"	12/31/2011
21. UNDER GROUND ATT LINE Relocate before construction	U-21 LIME ST From Lt 206.59' STA 392+96.48 to Lt 195.24' STA 394+57.23 "GE1"	12/31/2011
SEMPRA GAS		

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22. Abandon 2" Gas Line Before construction	U-13 IVY BRIDGE 143.53' Lt Station "GE1" 321+12.34 to 116.36' Rt Station "GE1" 320+83.97	12/31/2011
23. Abandon 2" Gas Line Before Construction	U-13 ELDER PROPERTY 157.26' Rt Station "GE1" 316+82.02 to 116.36' Rt Station "GE1" 320+83.97	12/31/2011
24. Relocate 8" Gas Line. Before construction	U-15 Delgadillo gas line From 242.63' RT Station 347+2.49 To 86.54' RT Station 347+54.64	12/31/2011
25. 2" Gas Line Relocate. Before construction approximately 14' south of existing alignments.	U-18 & U-19 PROSPECT & VINE & FIFTEEN STREET 139.15' Rt Station "GE1" 363+71.68 to 143.49' Rt Station "GE1" 367+40.73	12/31/2011
26. Abandon 2" Gas Line Before Construction	U-19 MULBERRY & KANE STREET 188.38' Lt Station "GE1" 368+43.28 to 183.56' Lt Station "GE1" 372+32.06	12/31/2011
27. Abandon 4" Gas Line Before Construction	U-20 LIME STREET & 10TH STREET ON RAMP 277+51' Lt Station "GE1" 391+36.71 to 133.74' Lt Station "GE1" 391+13.06	12/31/2011
28. Abandon 4" Gas Line. Before construction	U-19 & U-20 VINE STREET from 238.49' Rt Sta 377+00 to 427.07' Rt Station "GE1" 387+47.93	12/31/2011
29. Relocate 4" Gas Line. Before Construction	U-20 alignment to be determined Vine Street from 377+47' to 387+47.93 "GE1"	12/31/2011
30. Abandon 2" Gas Line. Before Construction	U-20 11th STREET 369.10' Lt Station "GE1" 387+84.46 to 134.14' Lt Station "GE1" 387+14.21	12/31/2011
31. 4" Gas Line. DROP SECTION BELOW Before construction proposed Sewer line.	U-20 374.51 LT STATION "GE1" 387+64.86' LIME STREET & 11TH STREET	12/31/2011
PUBLIC WORKS SEWER		

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32. Relocate: Before construction 8" Sewer Line	U-19 14 th STREET BRIDGE From Rt 229.96' STA 373+37.13 to Lt 148.12' STA 374+86.98	12/31/2011
33. Relocate. Before Construction 8" Sewer line	U-19 & U-20 VINE ST From Rt 203.51' STA 375+85.02 to Rt 363.72' STA 386+15.27 "GE1"	12/31/2011
34. Relocate .Before construction 18" Sewer Line	U-20 11TH STREET freeway crossing From Rt 144.96' STA 386+11.53 to Lt100.41' STA 386+86.07 "GE1"	12/31/2011
35. Relocate. Before construction 18" Sewer line	U-20 From Lt 103.8' STA 383+57.38 to Lt 100.41' STA 386+86.07 "GE1"	12/31/2011
36. Abandon Sewer Line. Before construction	U-9 TAVAGLIONE PRIVATE SEWER From Rt 178.61' STA 267+50.20 to Rt 161.82' STA 269+21.73 "F3"	12/31/2011
RPU WATER		
37. Relocate. Before construction 12" Water Line	U-7 & U-9 ARLINGTON From 269.94' Lt Sta "GE1" 256+70.01 To 266.63' Rt Sta "GE1" 263+70.57	02/28/2012
38. 6" Water Line Relocate Outside R/W	U-17 Date Street From 149.94' RT "GE1" 350+77.53 To 184.28' RT "GE1" 350+71.41	02/28/2012
39. 14" WATER LINE Abandon Line	U-20 Vine Street Between 11 & 12 Street From 260.90' RT Sta. 282+09.38 "GE1" To 342.77' RT Sta. 288+00.74 "GE1"	09/11/2011
40. 6" WATER LINE Relocate. Before construction BY RPU	U-19 14 STREET & VINE From 228.70' Rt Sta "GE1" 372+78.40 To 232.02' Rt Sta "GE1" 374+95.88	12/31/2011
41. 6" WATER LINE PRV Relocate. Before construction BY RPU	U-19 14TH STREET & VINE STREET 245.48' Rt Sta "GE1" 375+17.20	12/31/2011

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42. 12" WATER LINE Relocate Before construction BY RPU	U-19 VINE STREET & 13TH STREET From 257.94' Rt Sta "GE1" 374+84.34 To 219.84' Rt Sta "GE1" 377+02.86	12/31/2011
43. WATER WELL Abandon before construction by RPU	U-20 RW 382 From 96.79' Rt Sta "GE1" 383+78.07 To 106.03' Rt Sta "GE1" 385+60.31	09/01/2011
44. 12" WATER LINE Relocate .Before construction by RPU	U-20 DS 108 From 334.82' Rt Sta "GE1" 384+98.67 To 418.52' Rt Sta "GE1" 387+45.16	09/01/2011
45. 4" WATER LINE Relocate. Before construction by RPU	U-20 12 STREET & LIME STREET From 238.66' Lt Sta "GE1" 382+96.09 To 498.90' Lt Sta "GE1" 383+73.57	09/01/2011
RPU ELECTRIC		
46. Relocate before construction 2" CONDUIT & SVC BOX	U-3 MADISON & INDIANA From Rt 89.42' STA 198+ 43.26 to Rt 206.12' STA 198+ 82.51 "F3"	12/31/2011
47. Relocate before construction PRIMARY PULLBOX	U-7 INDIANA Rt 253.41' STA 254+68.56 "GE1"	12/31/2011
48. Relocate before construction C1924	U-7 INDIANA Rt 250.1' STA 256+24.55 "GE1"	12/31/2011
49. PP35-25991J-64 Abandon	U-7 INDIANA Rt 146.24' STA 259+57.87 "GE1"	12/31/2011
50. PP 30-31905J-77 Abandon before construction	U-7 INDIANA Rt 234.15' STA 259+40.38 "GE1"	12/31/2011
51. Relocate before construction SVC BOX	U-7 ARLINGTON Lt 181.37' STA 256+77.87 "GE1"	12/31/2011
52. PP 35-33852J-83 PP 35-33852J-83 Relocate Before Construction	U-7 ARLINGTON Lt 200.78' STA 256+63.71 "GE1"	12/31/2011
53. SVC BOX RELOCATE BEFORE Construction	U-7 ARLINGTON Lt 219.31' STA 256+63.78 "GE1"	12/31/2011

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54. Reloc.x5962 & X5963 Before Construction	U7 INDIANA & NEW ON RAMP Rt 223.13' STA 252+68.23 "GE1"	12/31/2011
55. Relocate. Before Construction C4953' WILL BE ABANDON	U-7 INDIANA & NEW ON RAMP Rt 137.67' STA 253+29.85 "GE1"	12/31/2011
56. Relocate.X5961 Before Construction	U7 INDIANA & NEW ON RAMP Rt 250.23' STA 252+92.11 "GE1"	12/31/2011
57. Relocate .PB 7972 Before Construction	U-7 ARLINGTON Rt 38.18' STA 259+95.82 "GE1"	12/31/2011
58. Relocate .PB 5412 Before Construction	U-7 ARLINGTON Lt 29.40' STA 259+16.28 "GE1"	12/31/2011
59. Relocate .PB 6881 Before Construction	U-7 ARLINGTON Rt 28.64' STA 261+ 09.23 "GE1"	12/31/2011
60. Relocate before construction 3" CONDUIT PROTECT IN PLACE	U-8 JANE From Rt 599.31' STA 252+21.57 to Rt 477.25' STA 252+55.84 "GE1"	12/31/2011
61. 18" X 18" ENC, 50- J34500-87 Relocate .Before Construction	U-8 JANE Rt 598.47' STA 252+36 "GE1"	12/31/2011
62. SVS BOX RELOCATE BEFORE Construction	U-8 JANE From Rt 591.31' STA 251+67.26 to Rt 598.47' STA 252+67.48 "GE1"	12/31/2011
63 Relocate .PB 4413 Before Construction	U-8 JANE From Rt 550.63' STA 252+35.99 "GE1"	12/31/2011
64. Relocate.PPJ34500 Before Construction	U-8 JANE From Rt 602.90' STA 252+36.73 "GE1"	12/31/2011
65. SVC BOX Relocate .Before Construction	U-9 RIVERSIDE DR. Lt 181.5' STA 264+79.27 "GE1"	12/31/2011
66. SVC BOX Relocate .Before Construction	U-9 RIVERSIDE DR. Lt 123.52' STA 265+42.55 "GE1"	12/31/2011
67. PP 16263J-57 RELOCATE BEFORE Construction	U-9 RIVERSIDE DR. Lt 175.05' STA 266+30.73 "GE1"	12/31/2011

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68. PP-737417H-56 RELOCATE BEFORE Construction	U-9 RIVERSIDE DR. Lt 207.5' STA 266+27.9 "GE1"	12/31/2011
69. PP-J37682-97 Relocate Before Construction	U-9 ARLINGTON Rt 250.02' STA 263+85.6 "GE1"	12/31/2011
70. PP 170617J Relocate .Before Construction	U-9 TAVAGLIONE Rt 154.11' STA 265+15.75 "GE1"	12/31/2011
71. PP 7062J Relocate .Before Construction	U-9 TAVAGLIONE Rt 133.98' STA 266+53.29 "GE1"	12/31/2011
72. PP 17063J Relocate .Before Construction	U-9 TAVAGLIONE Rt 117.1' STA 269+17.08 "GE1"	12/31/2011
73. PP 17064J Relocate .Before Construction	U-9 TAVAGLIONE Rt 117.68' STA 271+85.57 "GE1"	12/31/2011
74. PP 17065J Relocate .Before Construction	U-10 Rt 116.41' STA 274+39.63 "GE1"	12/31/2011
75. PP 17066J Relocate .Before Construction	U-10 Rt 112.49' STA 277+01.42 "GE1"	12/31/2011
76. PP 37050J Relocate .Before Construction	U-10 Rt 110.02' STA 280+63.23 "GE1"	12/31/2011
77. Relocate before construction PP 598588H INSIDE R/W	U-10 Rt 203.82' STA 285+91.1 "GE1"	12/31/2011
78. 2 SVC BOX Relocate .Before Construction	U-11 WB CENTRAL ONRAMP Lt 169.1' STA 287+96.25 "GE1"	12/31/2011
79. PP-34100J-84 RELOCATE BEFORE Construction	U-11 WB CENTRAL ONRAMP Lt 240.32' STA 288+97.19 "GE1"	12/31/2011
80. SVC Box Relocate .Before Construction	U-11 EB CENTRAL ON RAMP ISLAND Rt 175.08' STA 293+88.53 "GE1"	12/31/2011
81. SVC Relocate .Before Construction	U-11 EB CENTRAL ON RAMP ISLAND Rt 190.44' STA 293+88.59 "GE1"	12/31/2011
82. PP 75-J36714-95 Relocate Before Construction	U-11 MINI STORAGE Rt 139.87' STA 296+35.75 "GE1"	12/31/2011
83. SVC Relocate .Before Construction	U-11 MINI STORAGE Rt 157.56' STA 296+19.17 "GE1"	12/31/2011

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84. PP J36713-95 Relocate Before Construction	U-11 MINI STORAGE Rt 230.44' STA 295+15.48 "GE1"	12/31/2011
85. PP J36712-95 Relocate Before Construction	U-11 MINI STORAGE Rt 129.14' STA 299+23.11 "GE1"	12/31/2011
86. PP J36711-95 Relocate Before Construction	U-12 MINI STORAGE Rt 120.22' STA 301+31.51 "GE1"	12/31/2011
87. Pull box Relocate .Before Construction	U-12 MINI STORAGE Rt 109.05' STA 303+46.7 "GE1"	12/31/2011
88. PP J36710-95 Relocate Before Construction	U-12 MINI STORAGE Rt 99.76' STA 305+35.47 "GE1"	12/31/2011
89. PP J36709-95 Relocate Before Construction	U-12 MINI STORAGE Rt 102.8' STA 306+36.6 "GE1"	12/31/2011
90. PP J36702-95 RELOCATE Before Construction	U-12 MINI STORAGE Rt 125.47' STA 309+35.82 "GE1"	12/31/2011
91. PP 30-266628J-64 Relocate Before Construction	U-14 PANORAMA RD Lt 105.23' STA 334+25.71 "GE1"	12/31/2011
92. PP 45-15716-66 RELOCATE BEFORE Construction	U-14 PANORAMA RD Lt 138.25' STA 335+29.28 "GE1"	12/31/2011
93. PULLBOX Relocate Before Construction	U-18 Lt 115.39' STA 353+44.06 "GE1"	12/31/2011
94. PP 75-J36688-95 RELOCATE BEFORE Construction	U-18 MULBERRY ST & PROSPECT AVE Lt 135.28' STA 361+06.3 "GE1" AND Lt 135.3' STA 362+89.8 "GE1"	12/31/2011
95. PP 80-J36684-95 Relocate Before Construction	U-19 KANE & MULBERRY Lt 159.89' STA 370+69.52 "GE1"	12/31/2011
96. PP 80-J36683-95 Relocate Before Construction	U-19 MULBERRY ST & 14 ST Lt 158.61' STA 373+14.07 "GE1"	12/31/2011
97. PP 80-J36682-95 Relocate Before Construction	U-19 MULBERRY ST & 14 ST Lt 152.19' STA 375+91.99 "GE1"	12/31/2011
98. PP 80-31783J-71 Relocate Before Construction	U-20 EB 14ST ONRAMP Rt 134.53' STA 380+42.95 "GE1"	12/31/2011
99. M1401 Relocate Before Construction	U-19 VINE ST Rt 224.28' STA 376+43.60 "GE1"	12/31/2011

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100. PP 75-J36679-68 Relocate Before Construction	U-20 EB 14ST ONRAMP Rt 213.99' STA 380+36.04 "GE1"	12/31/2011
101. OVERHEAD WIRE Relocate before Construction	U-20 EB 14ST ONRAMP Rt 33.43' STA 380+39.97 "GE1"	12/31/2011
102. PP36091J Relocate Before Construction	U-20 EB 14ST ONRAMP Rt 128.28' STA 382+15.79 "GE1"	12/31/2011
103. PP 80-31784J-71 Relocate Before Construction	U-20 EB 14ST ONRAMP Rt 147.37' STA 384+19.35 "GE1"	12/31/2011
104. Overhead Wire Relocate Before Construction	U-20 EB 14ST ONRAMP Rt 167.81' STA 384+27.83 "GE1"	12/31/2011
105. M1 Relocate Before Construction	U-20 14ST OFF RAMP & MULBERRY ST Rt 111.83' STA 390+68.54 "GE1"	12/31/2011
106. PSE7888 & ASF3- 348 Relocate Before Construction	U-20 10ST ONRAMP WB Lt 181.80' STA 391+33.84 "GE1"	12/31/2011
107. P5954 & PSE7819 & GS3-351 Relocate Before Construction	U-20 10ST ONRAMP WB Lt 233.41' STA 387+05.30 "GE1" AND Lt 277.84' STA 387+69.26 "GE1"	12/31/2011
108. P923 Relocate Before Construction	U-20 10ST ONRAMP WB Lt 223.68' STA 390+97.41 "GE1"	12/31/2011

During the progress of the work under this Contract, the utility owner will relocate a utility shown in the following table within the corresponding number of days shown. Notify the Engineer before you work within the approximate location of a utility shown. The days start on the notification date.

Utility Relocation and Department-Arranged Time for the Relocation

Utility	Location	Days
ATT		
1. Protect in place ATT line by Contractor	U-6 BROCKTON AVE & 91 FREEWAY Lt 76.11' STA 239+34.48 "GE1"	Protect in place
2. Protect in place ATT VLT 2494 & 3194 & others in side walk	U-6 & U-7 SIDE WALK ON INDIANA AVE. BETWEEN BROCKTON & JANE From Rt 331.83' STA 244+59.41 to Rt 309.20' STA 252+10.20 "GE1"	7 DAYS Protect in place
3. Protect in place by Contractor	U-7 INDIANA & JANE From Rt 261.41' STA 250+77.23 to Rt 223.62' STA 257+41.76 "GE1"	Protect in place
4. M.H.5308 Adjust TO GRADE by Contractor	U-7 INDIANA & ARLINGTON From Rt 232.43' STA 261+77.08 "GE1"	2 DAYS Notice
5. Abandon ATT line Centerline Arlington	U-7 ARLINGTON From Lt 134' STA 258+42.55 to Rt 191.66' STA 262+04.99 "GE1"	No Line, It can be abandoned.
6. Abandon ATT Lines Centerline Arlington	U-7 ARLINGTON & RIVERSIDE DR From Lt 287.17' STA 256+87 to Lt 197.81' STA 261+04.74 "GE1"	No Line, It can be abandoned.
7. ATT LINE Protect in place by contractor	U-7 INDIANA & JANE From Rt 426.63' STA 252+49.44 to Rt 269.62' STA 252+89.81 "GE1"	Protect in place
8. TLMH 4653 adjust M.H. to Grade by ATT	U-7 INDIANA From Rt 252.43' STA 255+40.48 "GE1"	2 DAYS
9. Adjust M.H. 4653 By ATT	U-7 INDIANA STA. 255+45.74 " GE1" RT 248.17'	2 DAYS
10. Adjust ATT M.H. 4473 to Grade by ATT	U-8 JANE From Rt 741.21' STA 252+20.14 "GE1"	2 DAYS

11. Protect in place ATT Line in the sidewalk by Contractor	U-9 ARLINGTON From Rt 232.43' STA 261+77.08 to Rt 327.97' STA 263+22.11 "GE1"	Protect in place
12. Protect in place by Contractor	U-9 ARLINGTON & 91 EB ON RAMP From Rt 136.04' STA 262+43.04 to Rt 203.93' STA 263+45.31 "GE1"	Protect in place
13. Protect in place ATT Line by Contractor	U-9 ARLINGTON From Rt 208.2' STA 261+78.59 to Rt 113.4' STA 262+89.38 "GE1"	Protect in place
14. ATT LINE Protect in place by Contractor	U-9 91 FREEWAY & RW 262 Rt 92.71' STA 262+94.32 "GE1"	Protect in place
14. ATT LINE Protect in place by Contractor	U-9 91 FREEWAY & RW 261 Lt 76.51' STA 264+50.47 "GE1"	Protect in place
15. Protect in place ATT Line by Contractor	U-11 CENTRAL & 91 WB OFF RAMP From Lt 200' STA 290+17.12 to Lt 74.41' STA 291+35.72 "GE1"	Protect in place
16. Abandon ATT Line	U-11 CENTRAL & 91 WB OFF RAMP Lt 227.04' STA 290+21.46 "GE1"	Abandon
17. Abandon Telephone Pull box	U-12 RW 303 Lt 116' STA 301+55.3 "GE1" AND Lt 99.55' STA 303+59.9 "GE1"	Abandon
18. Abandon ATT Line (Frontage road)	U-13 RW 322 From Rt 64.55' STA 320+89.19 to Rt 90.59' STA 323+96.56 "GE1"	Abandon
19. Abandon ATT Line	U-13 ROCKHILL & IVY From Rt 219.73' STA 321+37.42 to Rt 281.55' STA 322+17.14 "GE1"	Abandon
20. Abandon ATT Line	U-13 IVY BRIDGE From Lt 114.22' STA 320+50.84 to Rt 126.82' STA 321+08.11 "GE1"	Abandon
21. Abandon ATT Line	U-14 RW 322 Lt 71.5' STA 334+59.09 "GE1"	Abandon

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22. Abandon ATT Line	U-14 RW 321 Lt 76.76' STA 334+70.26 "GE1"	Abandon
23. Abandon ATT Line	U-14 RW 322 From Rt 80.85' STA 334+87.53 to Rt 67.54' STA 336+11.95 "GE1"	Abandon
24. Abandon ATT Line	U-18 CRIDGE BRIDGE From Rt 110.74' STA 354+29.21 to Lt 158.33' STA 355+31.47 "GE1"	Abandon
25. ATT underground Line. Protect in place by Contractor	U-18 CRIDGE BRIDGE Lt 175.31' STA 354+58.25 "GE1"	Protect in place
26. ATT underground Line. Protect in place by Contractor	U-18 CRIDGE BRIDGE Lt 159.27' STA 355+11.07 "GE1"	Protect in place
27. Abandon telephone Cabinet	U-19 RW 369 Lt 79.8' STA 368+97.31 "GE1"	Caltrans Box Remove
28. Abandon telephone pull box	U-19 MULBERRY & Kane Lt 171.56' STA 369+70.49 "GE1"	Caltrans Pull Box Remove
29. ATT Line underground in the Sidewalk. Protect in place by Contractor	U-20 LIME ST From Lt 485.1' STA 382+88.44 to Lt 231.34' STA 391+37.54 "GE1"	Protect in place
30. ATT Line in the sidewalk. Protect in place by Contractor	U-20 VINE & 11TH STREET From Rt 358.77' STA 386+99.3 to Rt 390.13' STA 388+06.33 "GE1"	Protect in place
31. ATT LINE Protect in place by Contractor	U-21 RW 389 Lt 100.88' STA 394+90.15 "GE1"	Protect in place
SEMPRA GAS		
32. Protect in place 3" Gas Line by Contractor	U-3 MADISON & SB ONRAMP 189.49' Rt Station "F3" 198+47.62	Protect in place
33. Protect in place 6" Gas Line by Contractor	U-7 INDIANA & JANE & Hook Ramp (East West Direction) 273.63' Rt Station "GE1" 251+44.61 to 272.35' Rt Station "GE1" 253+53.23,	Protect in place

34. Protect in place 4" Gas Line by Contractor	U-7 Indiana & Jane (from Indiana toward Jane) 272.91' Rt Station "GE1" 252+62.44 to 429.18' Rt Station "GE1" 252+45.45	Protect in place
35. Protect in place 2 1" Gas Line by Contractor	U-7 INDIANA & ARLINGTON 317.36' Rt Station "GE1" 261+30.69	Protect in place
36. Protect in place 8" Gas Line by Contractor	U-7 ARLINGTON 163.62' Rt Station "GE1" 261+68.97 to 113.77' Rt Station "GE1" 262+12.14	Protect in place
37. Protect in place 30" Gas Line by Contractor	U-7 ARLINGTON 77.22' Lt Station "GE1" 258+95.02 to 295.42' Rt Station "GE1" 263+31.94	See restriction below
38. Protect in place 30" Gas Line by Contractor	U-7 ARLINGTON 270.73' Lt Station "GE1" 256+65.88 to 77.22' Lt Station "GE1" 258+95.02	Protect in place
39. Protect in place 6" Gas Line by Contractor	U-7 ARLINGTON 152.77' Lt Station "GE1" 258+43.85 to 240.77' Rt Station "GE1" 263+10.28	Protect in place
40. Protect in place 6" Gas Line by Contractor	U-7 ARLINGTON & RIVERSIDE 187.86' Lt Station "GE1" 258+76.65	Protect in place
41. Adjust GV 5117 BY SEMPRA	U-7 ARLINGTON & INDIANA 160.26' Rt Station "GE1" 261+28+45	1 DAY
42. Adjust Gas Valve by SEMPRA	U-8 JANE & RAILROAD CROSSING 480.00' Rt Station "GE1" 252+38.96 to 614.41' Rt Station "GE1" 252+19.03	1 DAY
43. Adjust Gas Valve by SEMPRA	U-8 JANE & RAILROAD CROSSING 703.03' Rt Station "GE1" 252+08.47 to 861.53' Rt Station "GE1" 251+89.57	1 DAY
44. Protect in place 6" Gas Line in the side walk	U-9 ARLINGTON & INDIANA 317.33' Rt Station "GE1" 263+03.70	Protect in place

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45. Protect in place 8" Gas Line by Contractor	U-9(RW 262) FREEWAY CROSSING 92.30' Rt Station "GE1" 262+30.73	Protect in place
46. Protect in place 8" Gas Line by Contractor	U-9 (RW RW 261) FREEWAY CROSSING 76.50' Lt Station "GE1" 263+81.00	Protect in place
47. Protect in place 6" Gas Line by Contractor	U-7 & U-9 RIVERSIDE DR & ARLINGTON WB OFF RAMP 206.50' Lt Station "GE1" 259+96.23 to 181.39' Lt Station "GE1" 263+88.91	Protect in place
48. Protect in place 2" Gas Line by Contractor	U-11 CENTRAL & WB 91 OFF RAMP 230.69' Lt Station "GE1" 290+18.87	Protect in place
49. Protect in place 2" Gas Line by Contractor	U-11 PACHAPPA DR & RW 293 124.68' Lt Station "GE1" 297+71.80	2 DAYS Notice
50. Protect in place 8" Gas Line by Contractor	U-15 91 FREEWAY & RW # 343 87.01' Lt Station "GE1" 347+99.70	Protect in place
51. Protect in place 8" Gas Line by Contractor	U-15 91 FREEWAY & RW # 346 88.20' Rt Station "GE1" 347+54.18	Protect in place
52. Protect in place 8" Gas Line by Contractor	U-15 BASIN 242.63' Rt Station "GE1" 347+2.49 to 469.67' Rt Station "GE1" 346+27.20	Protect in place
53. Protect in place 2" Gas Line by Contractor	U-17 (Date Street) 192.46' Rt Station "GE1" 350+80.89 to 540.38' Rt Station "GE1" 350+15.21	Protect in place
54. Protect in place 8" Gas Line by Contractor	U-15 BASIN 102.36' Rt Station "GE1" 347+50.20 to 469.67' Rt Station "GE1" 346+27.20	Protect in place
55. Protect in place 8" Gas Line by Contractor	U-15 BASIN 102.36' Rt Station "GE1" 347+50.20 to 469.67' Rt Station "GE1" 346+27.20	Protect in place

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56. Protect in place 8" Gas Line by Contractor	U-15 BASIN 102.36' Rt Station "GE1" 347+50.20 to 469.67' Rt Station "GE1" 346+27.20	Protect in place
57. Protect in place 8" Gas Line by Contractor	U-15 BASIN 102.36' Rt Station "GE1" 347+50.20 to 469.67' Rt Station "GE1" 346+27.20	Protect in place
58. Protect in place 8" Gas Line by Contractor	U-15 BASIN 102.36' Rt Station "GE1" 347+50.20 to 469.67' Rt Station "GE1" 346+27.20	Protect in place
59. Protect in place 8" Gas Line by Contractor	U-15 BASIN 102.36' Rt Station "GE1" 347+50.20 to 469.67' Rt Station "GE1" 346+27.20	Protect in place
PUBLIC WORKS SEWER		
60. Protect in place 24" Sewer line and M.H. by Contractor	U-3 MADISON STREET LT 16.85' STATION 198+15.50	Protect in place
61. Adjust any MANHOLE TO GRADE by Contractor	U-6 INDIANA From Rt 310.81' STA 245+74.09 "F3"	2 DAYS Notice
62. Adjust any MANHOLE TO GRADE by Contractor	U-6 INDIANA From Rt 281.59' STATION 246+97.50 "F3"	2 DAYS Notice
63. Protect in place Sewer M.H. by Contractor	U-7 INDIANA & ARLINGTON From Rt 294.43' STA 249+38.63 "F3"	Protect in place
64. Protect in place Sewer M.H. by Contractor	U-7 INDIANA & ARLINGTON From Rt 281.38' STA 249+65.75 "F3"	Protect in place
65. Protect in place Sewer M.H. by Contractor	U-7 INDIANA&ARLINGTON From Rt 281' STA 252+ 32.71 "F3"	Protect in place
66. Protect in place 8" Sewer Line & M.H. by Contractor from DS # 35	U-7 INDIANA&ARLINGTON From Rt 293.07' STA 261+ 52.68 "F3"	Protect in place

67. Protect in place 8" Sewer Line	U-7 INDIANA & ARLINGTON (sidewalk) From Rt 314.34' STA 261+05.32 to Rt 235.47' STA 261+90.96 "F3"	Protect in place
68. Protect in place 15" SEWER LINE, ADJUST TO GRADE SSMH SDMH5799, SSMH 5462, SSMH 7911 By Contractor	U-7&U-9 ARLINGTON From Lt 88.59' STA 259+24.13 to Rt 251.14' STA 263+78.66 "F3"	2 DAYS Notice
69. Protect in place 10" SEWER LINE, ADJUST TO GRADE SSMH 5461& SSMH 7897, SSMH 5451, SSMH 5798 By Contractor	U-7&U-9 ARLINGTON	2 DAYS Notice
70. Protect in place 15" SEWER LINE, ADJUST TO GRADE SSMH 8041 By Contractor	U-7 ARLINGTON From Lt 253.90' STA 256+49.88 to Lt 114.25' STA 259+60.48 "F3"	2 DAY Notice
71. Protect in place 10" SEWER LINE, ADJUST TO GRADE SSMH 8030	U-7 ARLINGTON	2 DAYS Notice
72. Abandon Sewer Line	U-7 ARLINGTON & INDIANA From Rt 289.24' STA 260+58.44 to Rt 151.82' STA 261+96.03 "F3"	0
73. Adjust Manhole to Grade By Contractor	U-7&U-8 JANE From Rt 1101.49' STA 250+75.77 to Rt 176.54' STA 253+17.23 "F3"	2 DAYS Notice
74. Adjust SSMH 4201 to Grade by contractor Protect in Place by Contractor	U-8 JANE From Rt 578.38' STA 251+97.97 "F3"	2 DAYS Notice
75. Adjust SSMH to Grade. Protect in Place By Contractor	U-8 JANE From Rt 814.67' STA 251+84.74 "F3"	2 DAYS Notice
76. Adjust SSMH 4545 to Grade by contractor Protect in Place by Contractor	U-8 JANE From Rt 824.56' STA 251+87.84 "F3"	2 DAYS Notice

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77. Adjust MH to Grade By Contractor	U-9 RIVERSIDE DR. From Lt 148.46' STA 261+97.97 to Lt 194.65' STA 266+05.61 "F3"	2 DAYS Notice
78. Protect in place 15" Sewer line & M.H. By Contractor	U-9 ARLINGTON From Rt 331.12' STA 264+21.29 +47.78 "F3"	Protect in place
79. Protect in place 8" Sewer Line & SSMH 11079 by Contractor	U-11 CENTRAL & 91 FREEWAY WB OFF RAMP DS # 59 Lt 148.93' STA 290+23.59 to Lt 74.03' STA 290+76.90 "GE1"	2 DAYS Notice
80. Protect in place 8" Sewer line by Contractor	U-11 CENTRAL & 91 FREEWAY EB OFF RAMP Rt 241.99' STA 293+40.51 to Rt 276.97' STA 293+74.87 "GE1"	Contractor shall submit means and method for supporting sewer pipe across trench, for review and acceptance by City. Contractor shall backfill to spring line of existing sewer main, across trench, with CLSM per Green book Section 201-6 Controlled Low Strength Material. Contractor shall provide submittal on CLSM for review and acceptance by City.
81. Protect in place SSMH 11072 by Contractor	U-11 CENTRAL & 91 FREEWAY Lt 246.51' STA 289+58.61 "GE1"	Protect in place

<p>82. Protect in place SSMH 9779 By Contractor</p>	<p>U-11 CENTRAL & 91 FREEWAY Rt 184.56' STA 292+87.01 "GE1"</p>	<p>Contractor shall submit means and method for supporting sewer pipe across trench, for review and acceptance by City. Contractor shall backfill to spring line of existing sewer main, across trench, with CLSM per Green book Section 201-6 Controlled Low Strength Material. Contractor shall provide submittal on CLSM for review and acceptance by City.</p>
<p>83. SDMH 15332, SSMH 15321 Adjust Manhole TO grade by Contractor</p>	<p>U-13 Rockhills & Ivy Rt 369.86' STA 319+56.40 to Rt 281.11' STA 322+86.34 "GE1"</p>	<p>2 DAYS Notice</p>
<p>84. SDMH 15321 Adjust any Manhole TO grade by Contractor</p>	<p>U-13 Rockhills & Ivy Rt 284.69' STA 320 + 57.25 "GE1"</p>	<p>2 DAYS Notice</p>
<p>85. SDMH 15501 Adjust Manhole to grade by Contractor</p>	<p>U-13 Rockhills & Ivy Rt 260.25' STA 321+ 21.54 "GE1"</p>	<p>2 DAYS Notice</p>
<p>86. SDMH 15500 Adjust Manhole TO GRADE by Contractor</p>	<p>U-13 Rockhills & Ivy Rt 263.75' STA 321+ 16.19 "GE1"</p>	<p>2 DAYS Notice</p>

87. Relocate EXIST LINE	U-15 CROSSING 91 FREEWAY @ STATION 341 From Lt 253.56' STA 338+19.35 to Lt 158.73' STA 343+76.34 to Lt 148.37' STA 342+85.55 to Lt 237.16' STA 339+42.18 "GE1" U-15 CROSSING 91 FREEWAY @ STA. 347 From Rt 102.87' STA 346+28.00 to Lt 299.73' STA 348+63.64 "GE1" U-15 & U-17 DATE STREET From Rt 118.07' STA 347+88.63 to Rt 124.54' STA 350+87.93 "GE1" U-17 Date Street From RT 146.45' Sta. 350+85.26 to RT 82.69' Sta. 350+79.03 "GE1"	120 DAYS RELOCATE DURING CONSTRUCTION PART OF TECHESQUITE PROJECT BY PUBLIC WORKS, To be completed by December 31,2011
88. ADJUST TO GRADE SSMH Protect in place By Contractor	U-19 MULBERRY & 14 STREET WB OFF RAMP From Lt 161.28' STA 374+00.24 to Lt 118.52' STA 378+42.10 "GE1"	2 DAYS Notice
89. Relocate 6" Sewer Line before Construction	U-19 MULBERRY & 14 STREET WB OFF RAMP From Lt 180.29' STA 369+23.78 to Lt 176.25' STA 370+53.17 "GE1"	40 DAYS
90. Protect in place SSMH by Contractor	U-20 LIME STREET From Lt 398.68' STA 387+ 77.69 "GE1"	Protect in place
91. Protect in place SSMH by Contractor	U-20 LIME STREET From Lt 396.92' STA 387+ 83.05 "GE1"	Protect in place
92. Protect in place SSMH by Contractor	U-20 LIME STREET From Lt 340.79' STA 389+ 64.47 "GE1"	Protect in place
93. Protect in place SSMH by Contractor	U-20 LIME STREET From Lt 321.90' STA 390+ 27.27 "GE1"	Protect in place
94. Protect in place SSMH by Contractor	U-20 LIME STREET From Lt 297.41' STA 391+ 05.60 "GE1"	Protect in place
95. Protect in place SSMH by Contractor	U-20 LIME STREET From Lt 279.79' STA 391 + 39.65 "GE1"	Protect in place

96. Protect in place SSMH by Contractor	U-21 RW 389 From Lt 43.22' STA 394+16.82 to Lt 142.88' STA 395+07.29 "GE1"	Protect in place
97. Protect in place SSMH by Contractor	U-21 Lime Street from Lt 279.12 STA. 392+39.51 "GE1"	Protect in place
98. Protect in place SSMH by Contractor	U-21 Lime Street from Lt 256.63 STA. 3994+78.63 "GE1"	Protect in place
99. Protect in place SSMH by Contractor	U-21 Lime Street from Lt 244.37 STA. 394+85.69 "GE1"	Protect in place
100. Protect in place SSMH by Contractor	U-21 Mulberry ST From Rt 137.56 STA. 394+73.00"GE1"	Protect in place
101. Protect in place SSMH by Contractor	U-21 Mulberry ST From Rt 155.15 STA. 395 + 33.44 "GE1"	Protect in place
RPU WATER		
102. Relocate Water Vault during construction	U-1 JEFFERSON & 91 69.73' Rt Sta "F3" 170+68.99	5 Days Notice, 2 Days Const.
103. ADJUST TO GRADE W.V.3734 by Contractor	U-6 INDIANA AVENUE From 301.33' Rt Sta "GE1" 246+80.51	5 Days Notice, 2 Days Const.
104. ADJUST TO GRADE W.V.3735 by Contractor	U-6 INDIANA AVENUE From 303.26' Rt Sta "GE1" 246+73.02	5 Days Notice, 2 Days Const.
105. Relocate .During Construction by RPU Water	U-6 & U-7 INDIANA SIDE WALK From 318.61' Rt Sta "GE1" 244+69.53 To 329.44' Rt Sta "GE1" 251+97.17	2 DAYS Relocation of domestic water services by City Forces within new sidewalk area. All domestic water services will have to be reconnected by property owner on backside of water facility. Relocation of water facilities by City Forces. Need 5 day notice for construction Two day construction for each facility.
106. Relocate .Fire Hydrant During Construction by RPU Water	U-7 INDIANA & JANE 352.72' Rt Sta "GE1" 252+16.76	5 Days Notice, 2 Days Const.

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107. Relocate Fire Hydrant During construction	U-7 INDIANA & ARLINGTON 165.93' Rt Sta "GE1" 261+26.80	5 Days Notice, 2 Days Const. Likely be part of Arlington Relocation.
108. THREE WATER METER & WATER VALVE (WM by RPU Water) WM 5301, WM 5302, WM 5303, WV 5304 (WV by Contractor)	U-7 INDIANA & ARLINGTON 264.70' Rt Sta "GE1" 261+64.54	5 Days Notice, 5 Days Const. Relocate 6" if needed.
109. ADJUST TO GRADE W.V.3167 by Contractor	U-7 INDIANA AVENUE From 301.53' Rt Sta "GE1" 248+61.69	1 Day Notice RCTC to request abandon service at Bakers
110. ADJUST TO GRADE W.V.3166 by Contractor	U-7 INDIANA AVENUE From 303.18' Rt Sta "GE1" 249+04.08	1 Day Notice
111. ADJUST TO GRADE W.V.4090 by Contractor	U-7 INDIANA AVENUE From 303.64' Rt Sta "GE1" 252 + 38.43	1 Day Notice
112. Relocate W.M.4023 by RPU Water	U-7 INDIANA AVENUE From 250.26' Rt Sta "GE1" 253 + 19.14	5 Days Notice 2 Days Const. RCTC to request abandon service at Bakers
113. ADJUST TO GRADE W.V. 4696 by Contractor	U-7 INDIANA AVENUE From 300.10' Rt Sta "GE1" 255 + 38.57	1 Day Notice
114. ADJUST TO GRADE W.V. 4695 by Contractor	U-7 INDIANA AVENUE From 303.14' Rt Sta "GE1" 255 + 41.05	1 Day Notice
115. Adjust TO GRADE W.V. 5454, WV 5453, WV 5452 by Contractor	U-7 ARLINGTON 145.34' Rt Sta "GE1" 261.59.78	1 Day Notice
116. CUT HEADWALL TO GRADE by Contractor	U-7 INDIANA AVENUE & ARLINGTON From 242.37' Rt Sta "GE1" 261+79.52	1 Day Notice
117. 8" WATER LINE Protect in place by Contractor	U-8 JANE & RR 722.58' Rt Sta "GE1" 251+91.04	1 Day Notice
118. 30" WATER LINE Relocate (Drop Section below).Relocate during construction BY RPU	U-9 RIVERSIDE DR. From 118.70' Lt Sta "GE1" 264+48.02 To 189.79' Lt Sta "GE1" 265+25.43	30 Days Const. To be relocated by 09/30/2012

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<p>119. Adjust TO GRADE W.V. MH 5671, W.V. 5672, MH 5670, MH 5669, W.V. 5667, M.H. 5666 (WV adjusted by Contractor, M.H. br RPU Water)</p>	<p>U-9 ARLINGTON From 250.83' Rt Sta "GE1" 263+74.71 To 304.36' Rt Sta "GE1" 264+31.34</p>	<p>City Forces to adjust manhole lids to grade. Need 5 day notice for construction. Two day construction for each facility.</p>
<p>120. Adjust TO GRADE W.V. 5420, W.V. 5421, W.V. 5422, W.V. 5423, W.V. 5424, W.V. 5425, W.V. 5426, W.V. 5427 by Contractor.</p>	<p>U-9 ARLINGTON 128.31" Rt Sta "GE1" 262+21.76</p>	<p>5 Days Notice</p>
<p>121. Adjust TO GRADE W.V. 5443 by Contractor</p>	<p>U-9 ARLINGTON 128.78' Rt Sta "GE1" 262+53.30</p>	<p>1 Day Notice</p>
<p>122. 30" WATER LINE Place split casing by RPU Water. During construction</p>	<p>U-9 UNDER THE FREEWAY 92.46' Rt Sta "GE1" 262+55.57 & 67.50' Lt Sta "GE1" 264+05.67</p>	<p>20 Days Const. 5 Day Notice To Be Relocated by 07/31/2012 The Contractor is to excavate for wall then stop for 20-days to allow RPU Water to place split casing.</p>
<p>123. 6" WATER LINE Protect in place by Contractor</p>	<p>U-9 RIVERSIDE DR. From 179.13' Lt Sta "GE1" 262+42.18 To 188.39' Lt Sta "GE1" 264+94.47</p>	<p>3 DAYS Existing 6" ACP line to be protected in-place by Caltrans Contractor. If exposure of 6" main or cover comes within 2.5' of main then City Forces will relocate. Need 5 day notice for construction. Construction to take 3 days of night work.</p>
<p>124. 42" WATER LINE & WATER CANAL Relocate during construction BY RPU</p>	<p>U-10, U-11, U12 & U-13 CENTRAL & ARLINGTON, From 179.06' Rt Sta "GE1" 280+29.75 To 175.54' Rt Sta "GE1" 289+99.27 MINI STORAGE From 171.98' Rt Sta "GE1" 296+76.02 To 105.04' Rt Sta "GE1" 309+35.70 RW # 322 From 103.50' Rt Sta "GE1" 321+44.42 To 93.84' Rt Sta "GE1" 326+43.00</p>	<p>140 Days To be relocated by May 30th 2012.</p>

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125. Relocate during Construction	U-11 WB CENTRAL OFF RAMP 13.83' Lt Sta "GE1" 290+35.70	5 DAYS To be relocated by 06/30/2012
126. 20" WATER LINE Protect in place by Contractor	U-11 CENTRAL & WB OFF RAMP 106.64' Lt Sta "GE1" 290+45.56	1 Day Notice
127. 42" WATER LINE ADJUST TO GRADE W.V. 15283 by Contractor	U-13 BETWEEN OH & OC IVY BRIDGE 108.14' Rt Sta "GE1" 320+54.33	2 Days Notice 03/30/2012
128. 42" WATER LINE Adjust TO GRADE W.V. 15236, W.V. 15239, W.V. 15237, W.V. 15238, W.V. 15240, W.V. 15241 By Contractor	U-13 BETWEEN OH & OC IVY BRIDGE 106.85' Rt Sta "GE1" 321+07.52	1 Day Notice 03/30/2012
129. RELOCATE FIRE HYDRANT ADJUST TO GRADE W.V. 15491, W.V. 15492, W.V. 15493 by Contractor	U-13 IVY & ROCKHILL 234.53' Rt Sta "GE1" 321+22.18	5 Days Notice 2 Days to relocate
130. W.M. 15519 Protect in place by Contractor	U-13 ROCKHILL From 262.82' Rt Sta "GE1" 321+70.50 To 269.26' Rt Sta "GE1" 321+ 92.91	1 Day Notice
131. 24" WATER LINE W.V. 15322, W.V. 15323, W.M. 15412, W.V. 15278, W.V. 15497, W.V. 15498, W.V. 15499 Adjust to grade WV by Contractor, WM by RPU Water	U-13 ROCKHILL 268.05' Rt Sta "GE1" 320+56.67	5 Days Notice 2 Days Const.
132. 10" WATER LINE Relocate during Construction BY RPU	U-13 IVY BRIDGE From 103.73' Rt Sta "GE1" 320+75.74 To 96.92' Lt Sta "GE1" 320+77.34	30 DAYS To be relocated by 07/31/2012 Relocation of 10" Waterline by 12" waterline and 24" casing by Bore and Jack.
133. 8" WATER LINE W.V. 15048, W.V. 15030, W.V. 15031 Adjust to grade by Contractor	U-13 IVY BRIDGE 119.21' Lt Sta "GE1" 320+78.13	Adjust gate valve can lids to grade by Caltrans Contractor. Inspection by City Water Inspector. Need one day notice for inspection.

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134. Adjust TO GRADE W.M. 15412 by RPU Water	U-13 IVY BRIDGE 331.01' Lt Sta "GE1" 320+10.74	5 Days Notice 2 Days Const.
135. Adjust TO GRADE W.V. 15323 by Contractor	U-13 IVY BRIDGE 285.94' Lt Sta "GE1" 320+65.47	1 Day Notice
136. Adjust TO GRADE W.V. 15322 by Contractor	U-13 IVY BRIDGE 268.05' Lt Sta "GE1" 320+56.67	1 Day Notice
137. Adjust TO GRADE W.V. 15498 by Contractor	U-13 IVY BRIDGE 262.78' Lt Sta "GE1" 321+19.05	1 Day Notice
138. Adjust TO GRADE W.V. 15497 by Contractor	U-13 IVY BRIDGE 258.23' Lt Sta "GE1" 321+18.30	1 Day Notice
139. Adjust TO GRADE W.V. 15499 by Contractor	U-13 IVY BRIDGE 271.42' Lt Sta "GE1" 321+29.66	1 Day Notice
140. 24" WATER LINE Relocation during Construction BY RPU	U-14 RW321 78.94' Lt Sta "GE1" 334+53.02 & U-14 RW322 77.79' Rt Sta "GE1" 334+53.43	75 Days To be completed by 07/31/2012
141. 2" WATER LINE Relocate during construction by Contractor	U-14 RW 321 & 322 From 59.28' Lt Sta "GE1" 334+71.59 To 62.49' Rt Sta "GE1" 334+72.45	Relocation of 2" service via canal. Caltrans Contractor to relocate.
142. 24" WATER LINE Protect in place BY CONTRACOR	U-16 RR TRACK From 648.06' Lt Sta "GE1" 336+36.10 To 637.83' Lt Sta "GE1" 337+12.88	Caltrans Contractor to protect in-place 24" irrigation water main. Inspection by City Water Inspector. Need one day notice for inspection.
143. 6" Water Line Relocate during construction Outside R/W by RPU Water	U-17 Date Street From 149.94' RT "GE1" 350+77.53 To 184.28' RT "GE1" 350+71.41	5 Days Notice 2 Days Const.
144. 30" WATER LINE Relocate during construction BY RPU 6 W.V.& 2 W.M. Adjust M.M by RPU Water, W.V. by Contractor.	U-18 NEW BRIDGE From 180.53' Rt Sta "GE1" 354+59.54 To 111.35' Lt Sta "GE1" 354+68.54 & U-18 CRIDGE BRIDGE 137.94' Lt Sta "GE1" 354+59.81	60 Days Give RPU one month advance notice before Ivy Bridges construction finishes.

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<p>145. FIRE HYDRANT Relocate during construction</p>	<p>U-19 MULBERRY STREET 156.78' Lt Sta "GE1" 367+60.39</p>	<p>5 Days Notice 2 Days Const. Relocation of fire hydrant to be done by City Forces. Relocation within public right-of-way Need 5 day notice for construction. Two day construction for each facility.</p>
<p>146. 12" WATER LINE Protect in place BY CONTRACTOR</p>	<p>U-19 MULBERRY & KANE From 190.73' Lt Sta "GE1" 369+72.74 To 189.45' Lt Sta "GE1" 370+47.10</p>	<p>Protect in-place. Inspection by City Water Inspector. Need one day notice for inspection.</p>
<p>147. 12" WATER LINE Protect in place by Contractor</p>	<p>U-19 MULBERRY & KANE 188.54' Lt Sta "GE1" 370+66.60</p>	<p>Protect in-place. Inspection by City Water Inspector. Need one day notice for inspection.</p>
<p>148. 12" WATER LINE Relocate during construction BY RPU</p>	<p>U-19 MULBERRY STREET. From 186.66' Lt Sta "GE1" 372+65.32 To 186.36' Lt Sta "GE1" 374+06.14</p>	<p>5 Days Notice 5 Days Const. Relocation of fire water distribution main to be done by City Forces.</p>
<p>149. Adjust TO GRADE 3 W.V & 1 W.M. W.M by RPU Water & W.V. by Contractor.</p>	<p>U-19 MULBERRY & 14 ST 191.25' Lt Sta "GE1" 374+06.40</p>	<p>Protect in-place and adjust to grade by Caltrans Contractor. Inspection by City Water Inspector. 5 Days Notice 5 Days Const.</p>
<p>150. Protect in place 10" WATER LINE & Adjust TO GRADE 3 W. V. by Contractor</p>	<p>U-19 MULBERRY STREET & 14TH STREET 183.77' Lt Sta "GE1" 374+42.99</p>	<p>Protect in-place and adjust to grade by Caltrans Contractor. Inspection by City Water Inspector. Need one day notice for inspection. 5 Days Notice 2 Days Const.</p>

151. 6" WATER LINE by Contractor Protect in place	U-19 MULBERRY STREET 183.19' Lt Sta "GE1" 376+50.35	Protect in-place by Caltrans Contractor. Inspection by City Water Inspector. Need one day notice for inspection.
152. 6" WATER LINE Protect in place by Contractor	U-19 MULBERRY STREET 181.31' Lt Sta "GE1" 377+49.99	Protect in-place by Caltrans Contractor. Inspection by City Water Inspector. Need one day notice for inspection.
153. 36" WATER LINE Protect in place by Contractor	U-20 VINE257.63' Rt Sta "GE1" 82+08.75	Protect in-place and adjust to grade water valve lid by Caltrans Contractor. Inspection by City Water Inspector. Need one day notice for inspection.
154. 36" WATER LINE & M.H. Relocate .during construction by RPU	U-20 RW 378 135.77' Rt Sta "GE1" 382+30.53 & RW382 187.38' Rt Sta "GE1" 382+21.55 & 14 ST ON RAMP 72.56' Rt Sta "GE1" 382+41.55 & RW381 69.74' Lt Sta "GE1" 382+71.43 & RW381 102.65' Lt Sta "GE1" 382+78.81 & 12ST & MULBERRY 135.90' Lt Sta "GE1" 382+86.37	60 DAYS 04/30/2012
155. 2" WATER LINE Relocate during construction by RPU	U-20 10ST ONRAMP & RW387 From 116.70' Lt Sta "GE1" 387+02.29 To 199.67' Lt Sta "GE1" 387+27.43	Cut and plug water distribution main and abandon 2" service by City Forces. Need 5 day notification and 3 day construction.
156. 24" WATER LINE Relocate during Construction by RPU	U-20 RW 389 124.55' Lt Sta "GE1" 390+96.21 & 10ST ONRAMP 206.53' Lt Sta "GE1" 391+12.06 & VINE 94.91' Rt Sta "GE1" 390+47.48	40 DAYS To be completed by 6/30/2012

157. FLOW METER DEVICE RELOCATE DURING CONSTRUCTION BY RPU RPU ELECTRIC	OLIVEWOOD BOOSTER STATION, 87.60' Rt. Sta. "GE1" 335+50	7 Days
158. PROTECT IN PLACE RPU VAULT by Contractor	U-3 MADISON STREET RT 216.81 STATION 198+33.39 "F3"	0
159. PROTECT INPLACE 2EPSE8091, PSE7630 by Contractor	U-3 MADISON & INDIANA Rt 186.31' STA 198+91.43 "F3"	0
160. Protect in place 3-5" ELECTICAL CONDUITS by Contractor	U-3 MADISON & INDIANA From Rt 26.06' STA 197+58.91 to Rt 220.02' STA 197+93.25 "F3"	0
161. PROTECT INPLACE 45- 15949J-56 & 45-15947J- 56 By Contractor	U-5 INDIANA Lt 90.21' STA 230+98.83 "GE1" AND Lt 92.67' STA 232+51.54 "GE1"	0
162. Relocate .During Construction Power Pole	U-6 Retaining Wall RW231 Lt 83.41' STA 233+04.31 "GE1"	1 DAY
163. ADJUST TO GRADE VLT 3190 by RPU Electric	U-6 INDIANA From Rt 304.78' STA 244+79.88"GE1"	1 DAY
164. Indiana Sidewalk Relocate During Construction X5965 by RPU Electric	U-6 INDIANA From Rt 311.42' STA 245+71.05"GE1"	6 DAYS
165. Indiana Sidewalk Relocate During Construction ELE. LINE, PB1268, PB1267*** by RPU Electric	U-7 INDIANA From Rt 321.34' STA 247+57.76 to Rt 329.36' STA 252+00.56 "GE1"	6 DAYS
166. PROTECT INPLACE 2- 5" CONDUIT& C3850 by Contractor	U-7 JANE From Rt 533.33' STA 251+70.82 to Rt 315.93' STA 252+18.65 "GE1"	0
167. 50-15720J-51 Protect in place by Contractor	U-7 ARLINGTON Lt 219.5' STA 258+07.48 "GE1"	0
168. M 80 Protect in place By Contractor	U-7 ARLINGTON Lt 184.98' STA 258+28.07 "GE1"	0

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169. 6-4" CONDUIT PROTECT INPLACE by Contractor	U7 & U9 ARLINGTON From Lt 157.64' STA 258+44.73 to Rt 142.00' STA 261+97.58 "GE1"	0
170. X5962 & X5963 PROTECT INPLACE by Contractor	U7 91 EB OFF RAMP & INDIANA AVE From Rt 251.29' STA 249+04.05 to Rt 251.29' STA 249+65.04 "GE1"	0
171. Electric Line Protect in place by Contractor	U-7 ARLINGTON Lt 63.25' STA 259 + 99.91 "GE1"	0
172. C3851 Relocate .During Construction by RPU Electric	U-8 JANE Rt 596.64' STA 251+79.77 "GE1"	6 DAYS
173. 65-J34626-87 Relocate During Construction by RPU Electric	U-8 JANE Rt 720.41' STA 252+15.65 "GE1"	6 DAYS
174. 1" CONDUIT RELOCATE DURING Construction By RPU Electric	U-8 JANE From Rt 844.22' STA 251+40.49 to Rt 706.74' STA 251+80.98 "GE1"	4 DAYS
175. Adjust to Grade M79 by RPU Electric	U-9 ARLINGTON From Rt 333.65' STA 262+38.36 to Rt 317.57' STA 263+16.68 "GE1"	1 DAYS
176. 4" CONDUIT RELOCATE DURING Construction by RPU Electric	U-9 Arlington & Indiana sidewalk From 320.31' Rt Sta. 262+85.47 to 331.13' Rt Sta. 263 +12.65 "GE1"	4 DAYS
177. M 79 PROTECT INPLACE By Contractor	U-9 ARLINGTON Rt 148.23' STA 262+26.91 "GE1"	1 DAY
178. 4-4" CONDUIT (EMPTY)	U-9 91 FREEWAT STATION 263 + 50 From Rt 90.49' STA 262+61.48 to Lt 65.74' STA 264+41.49 "GE1"	0
179. PSE6771 Protect in place by Contractor	U-9 ARLINGTON Rt 345.68' STA 264+84.26 "GE1"	0
180. PP 36722J Protect in place by Contractor	U-10 Rt 127.61' STA 282+55.3 "GE1"	0
181. 75-J36722-95 PROTECT INPLACE by Contractor	U-10 Rt 207.28' STA 280+92.94 "GE1"	0 RPU Water

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182. 80-J37051-95 Protect in place by Contractor	U-10 Rt 195.97' STA 282+60.22 "GE1"	0
183. 80-J36721-95 Protect in place by Contractor	U-10 Rt 174.45' STA 284+27.33 "GE1"	0
184. PP 75-J36720-95 PROTECT IN PLACE by Contractor	U-10 RT 203.82' STA. 285 + 91.01 "GE1"	0
185. PP-598538H-53, PP-598537H-53, PP-598536H-53, PP-598535H-53 Protect in place	U-10 RETAINING WALL 281 Lt 111.52' STA 280+88.27 "GE1" AND Lt 117.35' STA 282+24.68 AND Lt 127.46' STA 283+58.94 AND Lt 138.7' STA 284+91.51	0
186. SVC Box Protect in place by Contractor	U-11 CENTRAL Lt 56.06' STA 290+37.19 "GE1"	0
187. SVC PROTECT IN PLACE By Contractor	U-11 CENTRAL Lt 25.4' STA 290+60.02 "GE1"	0
188. M 129 RELOCATE DURING by RPU Electric	U-11 CENTRAL Lt 146.18' STA 289+99.7 "GE1"	20 DAYS
189. M 77 Protect in place by Contractor	U-11 CENTRAL Lt 256.26' STA 289+67.96 "GE1"	0
190. SVC Box PROTECT IN PLACE by Contractor	U-11 CENTRAL Lt 34.46' STA 291+06.97 "GE1"	0
191. PP-12099J-52 PROTECT IN PLACE by Contractor	U-11 SUNNYSIDE DR 134.58' LT STA. 299+54.67 "GE1"	0
192. PP 75-J36702-95 Protect in place by Contractor	U-13 PANORAMA RD Lt 144.12' STA 323+62.55 "GE1"	0
193. PP 45-J35082-91 Protect in place by Contractor	U-14 RETAINING WALL # 322 Rt 120.14' STA 335+69.24 "GE1"	0
194. PP 40-11603J-50 PROTECT INPLACE	U-14 Rt 147.44' STA 335+72.56 "GE1"	0 SHORING MIGHT BE REQUIRED TO PROTECT THE POLE

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195. PP J36695-95 PROTECT IN PLACE by Contractor	U-15 BETWEEN PP # J36697 & J36698 From Lt 119.41' STA 337+98.25 to Lt 128.78' STA 338+92.1 "GE1"	0
196. PP 85-J36695-95 RELOCATE BEFORE Construction	U-15. Lt 81' STA 345+44.36 "GE1"	0
197. OVERHEAD WIRE PP J36692 Protect in place by Contractor	U-15 PPJ36696-95 & J36692-95 From Lt 105.32' STA 350+20.97 to Lt 127.72' STA 352+21.8 "GE1"	0
198. PP 90-J36692-95 PROTECT IN PLACE by Contractor	U-18 Lt 134.1' STA 352+10.9 "GE1"	0
199. PP J36691 & J36690 PROTECT IN PLACE by Contractor	U-18 CRIDGE BRIDGE Lt 127.48' STA 355+03.01 "GE1"	0
200. OVERHEAD WIRE Protect In place by Contractor	U-18 PP J36691 & J36690 From Lt 120.62' STA 354+91.36 to Lt 128.74' STA 358+53.16 "GE1"	0
201. Protect in place by Contractor	U-19 MULBERRY ST & PROSPECT AVE Lt 165.98' STA 366+19.42 "GE1" AND Lt 162.85' STA 368+43.64 "GE1"	0
202. PP 80-J36686-95 & 80 J36685-95 Protect in place by Contractor	U-19 MULBERRY ST & PROSPECT AVE Lt 161.47' STA 367+68.03 "GE1", Proposed Pole Location	0
203. PP 50-15400J-55 & 55- 813387H-73 PROTECT IN PLACE by Contractor	U-19 MULBERRY ST Lt 197.58' STA 371+36.71 "GE1" AND Lt 202.17' STA 372+08.40 "GE1"	0
204. SVC BOX PROTECT IN PLACE by Contractor	U-19 14 STREET Lt 216.55' STA 374+56.88 "GE1"	0
205. V1399 Protect in place by Contractor	U-19 14 STREET Lt 130.88' STA 374+02.63 "GE1"	0
206. V1400 Protect in place by Contractor	U-19 VINE ST & 14 STREET Rt 219.16' STA 373+51.14 "GE1"	0

207. 6-5" CONDUIT RELOCATE during Contraction by RPU Electric	U-19 14TH STREET BRIDGE	2 weeks advance notice to RPU prior to shut down of circuit + 2 weeks to cut existing line. 2 Weeks advance notice to RPU prior to installation of new line + 2 weeks to install new line.
208. POWER LINE Protect in place by Contractor	U-21 RW 389 Lt 95.90' STA 394+83.40 "GE1"	0
209. POWER LINE Protect in place by Contractor	U-21 RW 389 From Lt 100.63' STA 390+93.01 to Lt 157.06' STA 391+35.17 "GE1"	0
SPRINT COMMUNICATIONS		
210. Sprint Fiber Optic Line Protect in place by Contractor	U-13 Ivy Bridge From RT 155.79' STA 320+ 25.11 to RT 145.55' STA 321+22.20 "GE1"	
211. Sprint Fiber Optic Line Protect in place by Contractor	U-8 Jane street & RR crossing From RT 708.84' STA 252+ 12.01. to RT 708.45' STA 252+23.34 "GE1"	
RCTC Fiber Optic		
212. RCTC Fiber Optic Line Protect in place by Contractor	U-20 Vine Street From RT 237.6' STA 381+ 61.66 to RT 272.46' STA 381+58.71 "GE1"	

Installation of the utilities shown in the following section requires coordination with your activities. Make the necessary arrangements with the utility company through the Engineer and submit a schedule:

1. Verified by a representative of the utility company
2. Allowing at least the time shown for the utility owner to complete its work

The contractor shall build retaining wall RW361 from sta 368+10 to the end of the wall (sta 369+87), and backfill at 95% compaction to the R/W line. Before proceeding with the construction of RW361 between sta 366+90 to 368+10, the contractor will give 1 week advance notice to RPU Electric and another 1 week working window for RPU's installation of a guying system for power pole C-15 located 70' Lt of 14th St WB on ramp sta 367+62.80. The guying system will consist of 2 legs, 1 extending northerly and the other westerly from pole C-15.

Additional special instructions to the contractor regarding utilities follow.

The Southern California Gas Company has requested the following design parameters are strictly adhered to during construction over their gas lines and should be protected in place:

- Consideration be given to the safety of our pipeline during the design and construction stages.
- No mechanical equipment will be permitted to operate within three horizontal feet or one vertical foot of the pipeline, and any closer work must be done by hand. No heavy equipment to cross pipeline without Gas Company Representative's approval.
- A representative of The Gas Company must observe the excavation around or near our facilities to insure protection and to record pertinent data necessary for our operations.
- Vertical clearance of at least two (2) feet between High Pressure Gas Facilities and any substructure crossing, and all laterals must cross perpendicular to the gas facilities.
- All equipment crossing gas easement must be approved by the Gas Company Representative, and all crossings require a minimum of seven (7) feet of cover over gas facilities.
- Only rubber tire, light loading equipment will be allowed to work within the Gas Company Easement and no mechanical equipment will be permitted to operate within two (2) vertical feet of the pipeline. Any closer work must be performed by hand.
- A Construction Note to be placed on plans requiring Notification of Gas Company Representative prior to any work within the Gas Company Easement.
- A Caution Note to be placed on plans stating, "Caution, High Pressure Gas Line, Do Not Disturb", at each proposed crossing.
- No Change of Grade within Gas Company Easement without Gas Company's approval. No permanent structures within easement without Gas Company approval.
- Horizontal clearance of at least ten (10) feet between High Pressure Gas Facilities and any parallel substructure.
- No vibratory compaction equipment permitted within ten feet of High Pressure Gas Line. Static compaction equipment is permitted.

Should a re-location of the gas lines be necessary, a minimum of 6 months will be required in order to review, design, procure materials, construct and complete the re-locations. Any re-location is also subject to being up to 100% collectible.

Upon request, at least two (2) working days prior to the start of construction, we will locate and mark our active underground facilities for the contractor at no cost. Please call Underground Service Alert (USA) at (800) 422-4133.

Arrangements for someone to stand-by and observe can be made by calling (951) 845-0712 two working days prior to the start of construction.

To allow pile driving, drilling activities, or subsurface construction, the utility owner will rearrange the utilities shown in the following table during construction activities. No other utility will be rearranged or temporarily deactivated before or during construction activities for this purpose unless you make arrangements with the utility owner. Notify the Engineer at least 30 days before the interfering utilities are to be rearranged. The Engineer notifies the utility owners.

Utility Rearrangement for Pile Driving, Drilling Activities, or Subsurface Construction

Utility	Location
1. PROTECT IN PLACE RPU OVERHEAD LINES PP 15904J & 15905J	U-1 JEFFERSON BRIDGE RT 56.92' STA. 171+26.73 "F3"
2. PROTECT IN PLACE RPU OVERHEAD LINES	U-6 BROOKTON BRIDGE LT 54.62' STA. 239+40.07 "GE1"
3. PROTECT IN PLACE RPU OVERHEAD LINES PP J36697-95 & PP J36696-95	U-15 From 129.84' Lt Sta. 339+92.55 to 107.28' Lt Sta. 341 + 69.00 "GE1" RR Bridge

3/1/12 – 10/1/12	Stage 1 Phase 1	Construct Pachappa Walls 335, 339, 342, 343. Grading Slope at RW 335. Grading Sub ballast along Interim Tracks. Note: Phase 1A from Construction Details, Sheets C-109 & C-110.
5/1/12 – 10/31/12	Stage 1 Phase 2	Construct SR91 Walls 337, 338. Grading slope at RW335 (continued). Grading Sub-Ballast along Interim Tracks (continued). Construct Abutments, Bent 2 of Shoofly Pachappa UP Bridge. Note: Phase 1A from Construction Details, Sheets C-109 & C-110.
11/1/12 – 2/2/13	Stage 1 Phase 2	Complete Shoofly Bridge Construction. Note: Phase 1A from Construction Details, Sheets C-109 & C-110.
2/3/13 – 5/23/13	Stage 1 Phase 3	Construct Interim Track and Prepare for Tie-in (By others). Note: Phase 1B from Construction Details, Sheets C-111 & C-112.
5/24/13 – 5/28/13 (Memorial Day)	Stage 2 Phase 1	Remove Existing Track & signals (By others). Note: Phase 1C from Construction Details, Sheets C-113 & C-114. Sub ballast Grading on removed existing Track Limits. Note: Phase 1D from Construction Details, Sheets C-115 & C-116. Weekend tie-in, Switch Train From Existing Track To Interim Track (By others). Remove existing Tracks (By others). Note: Phase 1E from Construction Details, Sheets C-117 & C-118.
5/29/13 – 6/11/13	Stage 2 Phase 1	Remove Exist UP Bridge. Note: Phase 2A from Construction Details, Sheets C-119 & C-120.
6/12/13 - 10/21/13	Stage 2 Phase 3	Construct Pachappa UP Wall 343, 344, 346 and, -Wing Wall connecting to RW346. Complete Sub ballast Grading on removed existing Track Limits. Note: Phase 2A from Construction Details, Sheets C-119 & C-120

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7/12/13-3/31/14	Stage 2 Phase 3	Complete Permanent Bridge Construction. Note: Phase2A from Construction Details, Sheets C-119 & C-120.
4/1/14-5/22/14	Stage 2 Phase 4	Construct Permanent Track (By others). Prepare for Tie-in (By others). Note: Phase2B from Construction Details, Sheets C-121 & C-122.
5/23/14-6/10/14 (Memorial Day Tie-in + 2 weeks for Track Removal)	Stage 2 Phase 4	Weekend Tie-in, Switch Train From Interim Track To New Permanent Track and Remove Interim Track (By others). Note: Phase2B from Construction Details, Sheets C-123 & C-124.
6/11/14-8/31/14	Stage 2 Phase 4	Remove RW339 and RW342. Remove Superstructure of Shoofly UP Bridge. Final grading at removed shoofly location to existing topo. Note: Phase 3 from Construction Details, Sheets C-125 & C-126.

The Contractor shall notify the following Railroad Companies 30 days prior to the tie in work, as scheduled above, for Memorial Day Weekend 2013 and 2014.

Union Pacific Railroad

Kenneth Tom
Manager, Special Projects
(909) 685-2288
Union Pacific Railroad
2015 S Willow Ave
Bloomington, CA 92316

Burlington Northern-Santa Fe Railroad

Melvin Thomas
BNSF Public Projects
(909) 386-4472
740 East Carnegie Drive
San Bernardino, CA 92408

Southern California Regional Rail Authority

Naresh Patel
SCRRA/MetroLink
Manager of Civil Engineering
(213) 452-0254
700 South Flower St, Suite 2600
Los Angeles, CA 90017

10-1.442 GEOSYNTHETIC REINFORCED EMBANKMENT

GENERAL

Summary

This work includes placing geosynthetic reinforcement on compacted backfill at design elevations and locations. Comply with Section 19, "Earthwork," and Section 88, "Geosynthetics" of the Standard Specifications.

MATERIALS

Geosynthetic Reinforcement

LTDS values of geosynthetic reinforcement must comply with the following:

Geotechnical Subsurface Reinforcement

General

Geosynthetic reinforcement used for geotechnical subsurface reinforcement must be either geotextile or geogrid.

When tested under ASTM D 4491, geotextile permittivity must be at least 0.05 sec^{-1} .

Geogrid must have a regular and defined open area. The open area must be from 50 to 90 percent of the total grid area.

Long Term Design Strength

Determine the LTDS of geosynthetic reinforcement from the ultimate tensile strength in the Geosynthetic Research Institute Standard Practice GG4a, GRI GG4b, or GRI GT7.

The product of the reduction factors must be at least 1.30. Determine the reduction factor for creep using a 75 year design life for permanent applications. For temporary applications, use a 5 year design life to determine the reduction factor. Determine the installation damage reduction factor from the characteristics of backfill materials used.

If test data is not available, use default values of reduction factors in the Geosynthetic Research Institute Standard Practice to determine LTDS.

Submit the LTDS and its supporting calculations at least 15 days before placing geosynthetic reinforcement. The calculations must be signed by an engineer

Geosynthetic Reinforcement Type	LTDS (lb/ft)
Geotextile Reinforcement	3600

Each roll must be labeled with:

1. Manufacturer's name
2. Production identification
3. Roll dimensions
4. Lot number
5. Date of manufacture

Backfill

Backfill must be free from:

1. Organic material
2. Shale, soft, or poor durability particles
3. Recycled materials such as glass, shredded tires, concrete rubble, or other unsuitable materials as determined by the Engineer

Backfill must comply with the requirements in the following 2 tables:

Sieve Size	Percent Passing	California Test No.
1-1/2"	100	202
3/4"	75 - 100	202
No. 4	20 - 100	202
No. 40	0 - 60	202
No. 200	0 - 50	202

Property	Requirement	California Test No.
Plasticity Index	20 max	204
pH	5 to 9	643

If you proposed to use backfill with grading size larger than specified, 4-inch maximum size may be allowed. For backfill grading size larger than specified, include test results and the installation damage reduction factor of each geosynthetic reinforcement with your LTDS calculations. Perform tests for installation damage reduction factors under FHWA-NHI-00-044, Section 5.1.

CONSTRUCTION

Foundation Preparation

Remove loose or extraneous material and sharp objects that may come in contact with the geosynthetic reinforcement. Compact foundation under Section 19-5.03, "Relative Compaction (95 Percent)," of the Standard Specifications.

Geosynthetic Reinforcement Placement

Place geosynthetic reinforcement within 3 inches of the design elevations.

Unless otherwise shown, at least 3 inches of compacted backfill is required between layers of geosynthetic reinforcement.

Geosynthetic reinforcement must be:

1. Secured with staples, pins, or small piles of backfill
2. Placed without wrinkles
3. Aligned with the primary strength direction perpendicular to slope contours
4. Spliced under manufacturer's recommendations
5. Butted edge-to-edge for straight slope contours
6. Butted edge-to-edge at the slope face and fanned out or overlapped into the backfill for curved slope contours

Cover geosynthetic reinforcement with backfill within the same work shift.

Place at least 6 inches of backfill on the geosynthetic reinforcement before operating or driving equipment or vehicles over it, except for equipment or vehicles used under the conditions specified below for spreading backfill.

You may drive equipment or vehicles for spreading backfill directly on the geosynthetic reinforcement if:

1. You comply with manufacturer's recommendations
2. Vehicles have rubber tires
3. Traffic repetitions are minimized
4. Speed of less than 5 miles per hour is maintained
5. Sudden braking and sharp turning is avoided

Where guard railing posts will be placed at the top crest of the geosynthetic reinforced embankment and the geosynthetic reinforcement interferes with placement of posts, you may precut reinforcement of affected layers into cross-shaped patterns. The precutting dimensions must not exceed post dimensions by more than 12 inches.

Do not extend geosynthetic reinforcement into pavement structural section.

If the geogrid reinforcement is damaged during construction, replace it or repair it. Repair by placing additional reinforcement to cover the damaged area and:

1. For reinforcement placed parallel to slope contours, overlapping 5 aperture openings or 8 inches whichever is greater
2. For reinforcement placed perpendicular to slope contours, splicing the edges as recommended by the manufacturer

If the geotextile reinforcement is damaged during construction, replace it.

Backfill Placement and Compaction

Grade and compact backfill to ensure the reinforcement remains taut.

Compact backfill under Section 19-5.04, "Relative Compaction (90 Percent)," of the Standard Specifications. If hand-operated equipment is used to compact backfill, do not place more than 6 inches of backfill before compacting.

Construct embankment slope under Section 19-2.05, "Slopes," of the Standard Specifications.

Use hand-operated equipment to compact backfill areas within 3 feet of:

1. Slope contours
2. Underground structures

Disking and plowing is not allowed in the reinforced area.

MEASUREMENT AND PAYMENT

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in placing geosynthetic reinforcement complete in place, as shown on the plans, as specified in these special provisions, and as directed by the Engineer, is included in the contract price paid per cubic yard for roadway excavation and no additional compensation will be allowed therefor.

10-1.445 SUBBALLAST

GENERAL

SUMMARY

"Subballast": This item shall consist of a foundation course for asphalt surface course or railroad ballast and shall be composed of crushed stone from an approved source, materials and shall be constructed as herein specified in one or more courses in conformity with the typical sections shown on plans and to the lines provided by the Engineer.

PRODUCTS

MATERIALS

A. REQUIREMENTS

Materials shall be 100% crushed stone produced from oversize quarried aggregate, sized by crushing and produced from a naturally occurring single source. Aggregate shall have a percentage of wear, by the Los Angeles abrasion test, of not more than 50. A higher or lower percentage of wear may be specified by the Engineer, depending on the material available. 10% max loss freeze/thaw test.

B. GRADATIONS

It is the intent of this specification, that unless otherwise indicated on the plans, the subballast shall consist of gradations as set forth in the following table:

SIEVE SIZE	2"	1"	3/8"	No. 10	No. 40	No. 200
% passing (opt.)	100	95	67	38	21	3
% passing (perm.)	100	90-100	50-84	26-50	12-30	0-6

DESIGN REQUIREMENTS

A. Subballast will be used as indicated by the following charts or as directed by the Engineer:

6" OF SUBBALLAST SHALL BE REQUIRED WHEN SUB-GRADE MATERIAL SIZES ARE SMALLER THAN LISTED ABOVE, BUT NOT FINER THAN THE GRADATIONS LISTED BELOW:

PERCENT PASSING By Weight	SIEVE SIZE NO. Mesh per in.	GRAIN SIZE In mm.
19	200	.08
74	100	.16
92	60	.26
100	40	.42

12" OF SUBBALLAST SHALL BE REQUIRED WHEN SUB-GRADE MATERIALS HAVE GRADATION SMALLER THAN LISTED ABOVE.

EXECUTION

CONSTRUCTION METHODS

A. Preparation of Subgrade. The road bed shall be shaped in conformity with the typical sections shown on plans and to the line and grades provided by the Engineer. All unstable or otherwise objectionable material shall be removed from the subgrade and replaced with approved material. All holes, ruts and depressions shall be filled with approved material and if required, the subgrade shall be properly wetted with water and reshaped and rolled to the extent directed in order to place the subgrade in an acceptable condition to receive the subballast material. Sufficient subgrade shall be prepared in advance to insure satisfactory progression of the work.

B. If the required compacted depth of the subballast exceeds 6 inches, the subballast shall be constructed in two or more layers of approximate equal thickness. The maximum compacted thickness of any one layer shall not exceed 6 inches and shall be compacted to a 95 percent relative compaction, as specified in Section 19-5.03 "Relative Compaction (95 Percent) of the Standard Specifications.

C. If the material is laid and compacted in more than one layer, the Contractor shall plan and coordinate this work in such a manner that the previously placed and compacted layers be allowed ample time for curing and development of sufficient stability before vehicles hauling materials for the succeeding layers, or other heavy equipment are permitted on the subballast. Prior to placing the succeeding layers of material, the top of the under layer shall be sufficiently moist to insure a strong bond between the layers. The edges and/or edge slopes of the subballast shall be bladed or otherwise dressed to conform to the lines and dimensions shown on the plans and present straight, neat, and workmanlike lines and/or slopes as free of loose material as practicable.

MEASUREMENT AND PAYMENT

Furnishing and placement of subballast shall be measured in cubic yards within the neat lines of the typical sections, line, grades and slopes established.

The contract price per cubic yards for subballast shall include full compensation for furnishing unloading, hauling, compacting, dressing, testing, all labor, materials, tools, equipment, and incidentals and for doing all the work involved in placing the subballast, complete in place, as shown on the plans, as specified in these special provisions, and as directed by the Engineer.

ALTERNATIVE IN-LINE TERMINAL SYSTEM

Alternative in-line terminal system shall be furnished and installed as shown on the plans and in conformance with these special provisions.

The allowable alternatives for an in-line terminal system shall consist of one of the following or a Department approved equal.

- A. **TERMINAL SYSTEM (TYPE SKT)** - Terminal system (Type SKT) shall be a SKT 350 Sequential Kinking Terminal manufactured by Road Systems, Inc., located in Big Spring, Texas, and shall include items detailed for terminal system (Type SKT) shown on the plans. The SKT 350 Sequential Kinking Terminal can be obtained from the distributor, Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062, telephone (801) 785-0505 or from the distributor, Gregory Highway Products, 4100 13th Street, S.W., Canton, OH 44708, telephone (330) 477-4800.
- B. **TERMINAL SYSTEM (TYPE ET)** - Terminal system (Type ET) shall be an ET-2000 PLUS (4-tube system) extruder terminal as manufactured by Trinity Industries, Inc., and shall include items detailed for terminal system (Type ET) shown on the plans. The ET-2000 PLUS (4-tube system) extruder terminal can be obtained from the manufacturer, Trinity Industries, Inc., P.O. Box 99, 950 West 400S, Centerville, UT 84014, telephone (800) 772-7976.

The Contractor shall provide the Engineer with a Certificate of Compliance from the manufacturer in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. The Certificate of Compliance shall certify that the terminal systems furnished conform to the contract plans and specifications, conform to the prequalified design and material requirements, and were manufactured in conformance with the approved quality control program.

Terminal systems shall be installed in conformance with the manufacturer's installation instructions and these requirements. Each terminal system installed shall be identified by painting the type of terminal system in neat black letters and figures 2 inches high on the backside of the rail element between system posts numbers 4 and 5.

For terminal system (Type ET) the steel foundation tubes with soil plates attached shall be, at the Contractor's option, either driven, with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes shall be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer shall be moistened and thoroughly compacted. The wood terminal posts shall be inserted into the steel foundation tubes by hand and shall not be driven. Before the wood terminal posts are inserted, the inside surfaces of the steel foundation tubes to receive the wood posts shall be coated with a grease which will not melt or run at a temperature of 149° F or less. The edges of the wood terminal posts may be slightly rounded to facilitate insertion of the post into the steel foundation tubes.

For terminal system (Type SKT) the soil tubes shall be, at the Contractor's option, driven with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes shall be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer shall be moistened and thoroughly compacted. Wood posts shall be inserted into the steel foundation tubes by hand. Before the wood terminal posts are inserted, the inside surfaces of the steel foundation tubes to receive the wood posts shall be coated with a grease which will not melt or run at a temperature of 149° F or less. The edges of the wood posts may be slightly rounded to facilitate insertion of the post into the steel foundation tubes.

Surplus excavated material remaining after the terminal system has been installed shall be disposed of in a uniform manner along the adjacent roadway where designated by the Engineer.

The contract unit price paid for alternative in-line terminal system shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing alternative in-line terminal system, complete in place, including excavation, backfill and disposal of surplus material, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

ALTERNATIVE FLARED TERMINAL SYSTEM

Alternative flared terminal system shall be furnished and installed as shown on the plans and in conformance with these special provisions.

The allowable alternatives for a flared terminal system shall consist of one of the following or a Department approved equal.

- A. **TERMINAL SYSTEM (TYPE FLEAT)** - Terminal system (Type FLEAT) shall be a Flared Energy Absorbing Terminal 350 manufactured by Road Systems, Inc., located in Big Spring, Texas, and shall include items detailed for terminal system (Type FLEAT) shown on the plans. The Flared Energy Absorbing Terminal 350 can be obtained from the distributor, Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062, telephone (801) 785-0505 or from the distributor, Gregory Highway Products, 4100 13th Street, S.W., Canton, OH 44708, telephone (330) 477-4800.
- B. **TERMINAL SYSTEM (TYPE SRT)** - Terminal system (Type SRT) shall be an SRT-350 Slotted Rail Terminal (8-post system) as manufactured by Trinity Industries, Inc., and shall include items detailed for terminal system (Type SRT) shown on the plans. The SRT-350 Slotted Rail Terminal (8-post system) can be obtained from the manufacturer, Trinity Industries, Inc., P.O. Box 99, 950 West 400S, Centerville, UT 84014, telephone (800) 772-7976.

The Contractor shall provide the Engineer with a Certificate of Compliance from the manufacturer in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. The Certificate of Compliance shall certify that the terminal systems furnished conform to the contract plans and specifications, conform to the prequalified design and material requirements, and were manufactured in conformance with the approved quality control program.

Terminal systems shall be installed in conformance with the manufacturer's installation instructions and these requirements. Each terminal system installed shall be identified by painting the type of terminal system in neat black letters and figures 2 inches high on the backside of the rail element between system posts numbers 4 and 5.

For terminal system (Type SRT), the steel foundation tubes with soil plates attached shall be, at the Contractor's option, either driven, with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes shall be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer shall be moistened and thoroughly compacted. The wood terminal posts shall be inserted into the steel foundation tubes by hand and shall not be driven. Before the wood terminal posts are inserted, the inside surfaces of the steel foundation tubes to receive the wood posts shall be coated with a grease which will not melt or run at a temperature of 149° F or less. The edges of the wood terminal posts may be slightly rounded to facilitate insertion of the post into the steel foundation tubes.

For terminal system (Type FLEAT), the soil tubes shall be, at the Contractor's option, driven with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes shall be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer shall be moistened and thoroughly compacted. Wood posts shall be inserted into the steel foundation tubes by hand. Before the wood terminal posts are inserted, the inside surfaces of the steel foundation tubes to receive the wood posts shall be coated with a grease which will not melt or run at a temperature of 149° F or less. The edges of the wood posts may be slightly rounded to facilitate insertion of the post into the steel foundation tubes.

Surplus excavated material remaining after the terminal system has been installed shall be disposed of in a uniform manner along the adjacent roadway where designated by the Engineer.

The contract unit price paid for alternative flared terminal system shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing alternative flared terminal system, complete in place, including excavation, backfill and disposal of surplus material, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.1285 CRASH CUSHION (TYPE CAT)

Crash cushion (Type CAT) and crash cushion (Type CAT) backup shall be furnished and installed as shown on the plans and in conformance with these special provisions.

Crash cushion (Type CAT) shall be a CAT-350 Crash Cushion Attenuating Terminal as manufactured by Trinity Industries, Inc., and shall include all the items detailed for crash cushion (Type CAT) shown on the plans.

Crash cushion (Type CAT) backup shall consist of items detailed for crash cushion (Type CAT) backup shown on the plans and shall conform to the provisions in Section 83-1.02B, "Metal Beam Guard Railing," of the Standard Specifications.

Excluding the crash cushion (Type CAT) backup, arrangements have been made to ensure that any successful bidder can obtain the CAT-350 Crash Cushion Attenuating Terminal from the manufacturer, Trinity Industries, Inc., P.O. Box 99, 950 West 400S, Centerville, UT 84014, telephone (800) 772-7976. The price quoted by the manufacturer for the CAT-350 Crash Cushion Attenuating Terminal, FOB Centerville, Utah is \$ 3500.00, not including sales tax.

The above price will be firm for orders placed on or before January 27, 2012, provided delivery is accepted within 90 days after the order is placed.

The Contractor shall provide the Engineer with a Certificate of Compliance from the manufacturer in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. The Certificate of Compliance shall certify that crash cushion (Type CAT) conforms with the contract plans and specifications, conforms to the prequalified design and material requirements, and was manufactured in conformance with the approved quality control program.

The crash cushion (Type CAT) shall be installed in conformance with the manufacturer's installation instructions and these requirements. The steel foundation tubes with soil plates attached, shall be, at the Contractor's option, either driven, with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes shall be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer shall be moistened and thoroughly compacted. Wood posts shall be inserted into the steel foundation tubes by hand. Before the wood posts are inserted, the inside surfaces of the steel foundation tubes to receive the wood posts shall be coated with a grease which will not melt or run at a temperature of 149 °F or less. The edges of the wood posts may be slightly rounded to facilitate insertion of the post into the steel foundation tubes.

Surplus excavated material remaining after the crash cushion (Type CAT) and backup have been constructed shall be disposed of in a uniform manner along the adjacent roadway where designated by the Engineer.

Crash cushion (Type CAT) and crash cushion (Type CAT) backup will be measured as units determined from actual count in place in the completed work.

The contract unit prices paid for crash cushion (Type CAT) and for crash cushion (Type CAT) backup shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing crash cushion (Type CAT) and crash cushion (Type CAT) backup, complete in place, including excavation, backfill, and disposal of surplus material, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

BID ITEM LIST

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
22	120120	TYPE III BARRICADE	EA	160		
23	120149	TEMPORARY PAVEMENT MARKING (PAINT)	SQFT	3,930		
24	120159	TEMPORARY TRAFFIC STRIPE (PAINT)	LF	327,000		
25	120165	CHANNELIZER (SURFACE MOUNTED)	EA	1,600		
26	120200	FLASHING BEACON (PORTABLE)	EA	10		
27	120300	TEMPORARY PAVEMENT MARKER	EA	30,300		
28	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	20		
29	129000	TEMPORARY RAILING (TYPE K)	LF	114,100		
30	129100	TEMPORARY CRASH CUSHION MODULE	EA	920		
31	129150	TEMPORARY TRAFFIC SCREEN	LF	114,100		
32	141103	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	58,500		
33	141104	REMOVE YELLOW THERMOPLASTIC PAVEMENT MARKING (HAZARDOUS WASTE)	SQFT	2,020		
34	150221	ABANDON INLET	EA	12		
35	150227	ABANDON PIPELINE	LF	3,780		
36	150608	REMOVE CHAIN LINK FENCE	LF	25,300		
37	150630	REMOVE MARKER	EA	50		
38	150662	REMOVE METAL BEAM GUARD RAILING	LF	7,110		
39	150714	REMOVE THERMOPLASTIC TRAFFIC STRIPE	LF	76,500		
40	150715	REMOVE THERMOPLASTIC PAVEMENT MARKING	SQFT	2,580		

BID ITEM LIST

08-448404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	150722	REMOVE PAVEMENT MARKER	EA	13,000		
42	150742	REMOVE ROADSIDE SIGN	EA	120		
43	150760	REMOVE SIGN STRUCTURE	EA	22		
44	150763	REMOVE SIGN PANEL	EA	1		
45	150806	REMOVE PIPE	LF	1,940		
46	150820	REMOVE INLET	EA	48		
47	152316	RESET ROADSIDE SIGN (ONE POST)	EA	22		
48	152386	RELOCATE ROADSIDE SIGN-ONE POST	EA	42		
49	152396	RELOCATE SIGN PANEL	EA	3		
50	152430	ADJUST INLET	EA	1		
51	020829	COLD PLANE HMA PAVEMENT (2" MAX)	SQYD	42,100		
52	153210	REMOVE CONCRETE	CY	6,710		
53	020830	REMOVE MASONRY RETAINING WALL	LF	230		
54	153223	REMOVE UNSOUND CONCRETE	CF	26		
55	153235	CLEAN BRIDGE DECK	SQFT	54,257		
56	155003	CAP INLET	EA	8		
57	BLANK					
58	BLANK					
59	157556	BRIDGE REMOVAL, LOCATION F	LS	LUMP SUM	LUMP SUM	
60	157557	BRIDGE REMOVAL, LOCATION G	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST

08-448404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	157558	BRIDGE REMOVAL, LOCATION H	LS	LUMP SUM	LUMP SUM	
62	157559	BRIDGE REMOVAL, LOCATION I	LS	LUMP SUM	LUMP SUM	
63	157561	BRIDGE REMOVAL (PORTION), LOCATION A	LS	LUMP SUM	LUMP SUM	
64	157562	BRIDGE REMOVAL (PORTION), LOCATION B	LS	LUMP SUM	LUMP SUM	
65	157563	BRIDGE REMOVAL (PORTION), LOCATION C	LS	LUMP SUM	LUMP SUM	
66	157564	BRIDGE REMOVAL (PORTION), LOCATION D	LS	LUMP SUM	LUMP SUM	
67	157565	BRIDGE REMOVAL (PORTION), LOCATION E	LS	LUMP SUM	LUMP SUM	
68	157571	BRIDGE REMOVAL (PORTION), LOCATION K	LS	LUMP SUM	LUMP SUM	
69	043141	BRIDGE REMOVAL, LOCATION J	LS	LUMP SUM	LUMP SUM	
70	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
71	190101	ROADWAY EXCAVATION	CY	381,000		
72	020831	SITE GRADING	SQYD	14,700		
73	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
74	020832	TIRE SHRED EXCAVATION	CY	760		
75	020833	WASTE TRANSPORTATION AND DISPOSAL (TIRE SHRED MATERIALS)	CY	760		
76 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	CY	18,713		
77 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	141,005		
78 (F)	192049	STRUCTURE EXCAVATION (SOLDIER PILE WALL)	CY	979		
79 (F)	192055	STRUCTURE EXCAVATION (SOIL NAIL WALL)	CY	4,743		
80 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	CY	15,614		

BID ITEM LIST

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81 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	108,845		
82 (F)	193028	STRUCTURE BACKFILL (SOIL NAIL WALL)	CY	374		
83 (F)	193029	STRUCTURE BACKFILL (SOLDIER PILE WALL)	CY	71		
84 (F)	193030	PERVIOUS BACKFILL MATERIAL	CY	695		
85 (F)	193031	PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	CY	7,769		
86	020834	SUBBALLAST	CY	5,340		
87	193114	SAND BACKFILL	CY	370		
88 (F)	193116	CONCRETE BACKFILL (SOLDIER PILE WALL)	CY	92		
89	193118	CLASS 4 CONCRETE (BACKFILL)	CY	61		
90 (F)	193119	LEAN CONCRETE BACKFILL	CY	135		
91	194001	DITCH EXCAVATION	CY	5,730		
92 (F)	197021	EARTH RETAINING STRUCTURE, LOCATION A	SQFT	10,353		
93 (F)	197022	EARTH RETAINING STRUCTURE, LOCATION B	SQFT	21,259		
94 (F)	197023	EARTH RETAINING STRUCTURE, LOCATION C	SQFT	13,349		
95 (F)	197024	EARTH RETAINING STRUCTURE, LOCATION D	SQFT	5,445		
96 (F)	197025	EARTH RETAINING STRUCTURE, LOCATION E	SQFT	23,678		
97	197060	SOIL NAIL ASSEMBLY	LF	43,012		
98	200001	HIGHWAY PLANTING	LS	LUMP SUM	LUMP SUM	
99	020835	GRAVEL (MISCELLANEOUS AREAS) (3/4" BURGUNDY)	SQFT	315,000		
100	020836	GRAVEL (MISCELLANEOUS AREAS) (2 1/2" BURGUNDY)	SQFT	48,500		

BID ITEM LIST**08-448404**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	200114	ROCK BLANKET	SQYD	27,700		
102	203025	COMPOST (INCORPORATE)	SQYD	114,000		
103	204031	TRANSPLANT PALM TREE	EA	11		
104	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	
105	208000	IRRIGATION SYSTEM	LS	LUMP SUM	LUMP SUM	
106	208009	4" GALVANIZED STEEL PIPE (SUPPLY LINE)	LF	460		
107	020837	8" GALVANIZED STEEL PIPE	LF	460		
108 (F)	208028	3" SUPPLY LINE (BRIDGE)	LF	982		
109	208304	WATER METER	EA	16		
110	020838	8" GATE VALVE WITH SLEEVE AND COVER	EA	4		
111	208762	12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	LF	820		
112	208812	12" WELDED STEEL PIPE CONDUIT (.250" THICK)	LF	400		
113	208905	EXTEND 6" CONDUIT	LF	10		
114	020839	BOOSTER PUMP (TYPE 1)	EA	8		
115	020840	BOOSTER PUMP (TYPE 2)	EA	3		
116	250201	CLASS 2 AGGREGATE SUBBASE	CY	23,000		
117	260201	CLASS 2 AGGREGATE BASE	CY	35,000		
118	260210	AGGREGATE BASE (APPROACH SLAB)	CY	5		
119	280000	LEAN CONCRETE BASE	CY	11,000		
120	020841	HOT MIX ASPHALT (TYPE A, BOND BREAKER)	TON	6,350		

BID ITEM LIST

08-448404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121	390132	HOT MIX ASPHALT (TYPE A)	TON	72,800		
122	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
123	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	960		
124	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	7,560		
125	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	510		
126	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	4,670		
127	397001	ASPHALTIC EMULSION (PAINT BINDER)	TON	180		
128	401050	JOINTED PLAIN CONCRETE PAVEMENT	CY	31,400		
129	020842	CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	CY	6,370		
130	404092	SEAL PAVEMENT JOINT	LF	125,000		
131	404094	SEAL LONGITUDINAL ISOLATION JOINT	LF	36,750		
132	420201	GRIND EXISTING CONCRETE PAVEMENT	SQYD	12,300		
133	043142	STEEL SOLDIER PILE (HP 12 X 84)	LF	1,676		
134	490508	FURNISH STEEL PILING (HP 10 X 57)	LF	4,243		
135	490509	DRIVE STEEL PILE (HP 10 X 57)	EA	89		
136	490528	FURNISH STEEL PILING (HP 14 X 89)	LF	36,312		
137	490529	DRIVE STEEL PILE (HP 14 X 89)	EA	544		
138	490601	16" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	2,211		
139	490618	96" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	771		
140	043143	FURNISH PILING (CLASS 90) (ALTERNATIVE X)	LF	1,160		

BID ITEM LIST

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	043144	DRIVE PILE (CLASS 90) (ALTERNATIVE X)	EA	40		
142	490740	FURNISH PILING (CLASS 90) (ALTERNATIVE V)	LF	1,226		
143	490741	DRIVE PILE (CLASS 90) (ALTERNATIVE V)	EA	30		
144	490744	FURNISH PILING (CLASS 140) (ALTERNATIVE V)	LF	4,484		
145	490745	DRIVE PILE (CLASS 140) (ALTERNATIVE V)	EA	134		
146	020843	FURNISH PILING (CLASS 90- ALTERNATIVE X)	LF	670		
147	020844	DRIVE PILE (CLASS 90- ALTERNATIVE X)	EA	28		
148	043145	42" DRILLED HOLE	LF	868		
149	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
150	500050	TIEBACK ANCHOR	EA	22		
151	500060	TIEDOWN ANCHOR	EA	32		
152 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	3,255		
153 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	13,199		
154 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	35,280		
155 (F)	510061	STRUCTURAL CONCRETE, SOUND WALL	CY	51		
156 (F)	510072	STRUCTURAL CONCRETE, BARRIER SLAB	CY	1,839		
157 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	523		
158	510087	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	CY	53		
159	510090	STRUCTURAL CONCRETE, BOX CULVERT	CY	1,370		
160 (F)	043146	STRUCTURAL CONCRETE, APRON SLAB	CY	111		

BID ITEM LIST

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	800		
162	510524	MINOR CONCRETE (SOUND WALL)	CY	24		
163 (F)	043147	STRUCTURAL CONCRETE, PILE CAP	CY	106		
164 (F)	043148	ARCHITECTURAL SURFACE (TEXTURE CONCRETE) FRACTURED RIB TEXTURE	SQFT	33,336		
165 (F)	043149	ARCHITECTURAL SURFACE (TEXTURE CONCRETE) SPLIT SLATE TEXTURE	SQFT	29,665		
166 (F)	043150	ARCHITECTURAL SURFACE (TEXTURE CONCRETE) FRACTURED RIB SPLIT SLATE TEXTURE	SQFT	248,796		
167	511106	DRILL AND BOND DOWEL	LF	622		
168	511118	CLEAN EXPANSION JOINT	LF	220		
169	511124	RAPID SETTING CONCRETE (PATCH)	CF	26		
170	512206	FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (70'-80')	EA	7		
171	512207	FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (80'-90')	EA	16		
172	512208	FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (90'-100')	EA	25		
173	512280	FURNISH PRECAST PRESTRESSED CONCRETE BULB-TEE GIRDER (110'-120')	EA	7		
174	512282	FURNISH PRECAST PRESTRESSED CONCRETE BULB-TEE GIRDER (130'-140')	EA	9		
175	512500	ERECT PRECAST PRESTRESSED CONCRETE GIRDER	EA	64		
176	517961	SOUND WALL (BARRIER) (MASONRY BLOCK)	SQFT	10,100		
177	518002	SOUND WALL (MASONRY BLOCK)	SQFT	5,760		
178	020845	SOUND WALL (BARRIER CONCRETE)	SQFT	2,170		
179	518050	PTFE BEARING	EA	6		
180	518051	PTFE SPHERICAL BEARING	EA	16		

BID ITEM LIST

08-448404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
181	519081	JOINT SEAL (MR 1/2")	LF	58		
182	519088	JOINT SEAL (MR 1")	LF	751		
183	519093	JOINT SEAL ASSEMBLY (MR 3")	LF	37		
184	519095	JOINT SEAL ASSEMBLY (MR 4")	LF	37		
185	519097	JOINT SEAL ASSEMBLY (MR 5")	LF	36		
186	519100	JOINT SEAL (MR 2")	LF	246		
187	519114	JOINT SEAL ASSEMBLY (MR 8")	LF	24		
188	520101	BAR REINFORCING STEEL	LB	309,000		
189 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	3,666,437		
190 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	4,528,166		
191 (F)	530100	SHOTCRETE	CY	859		
192 (F)	540102	TREAT BRIDGE DECK	SQFT	54,257		
193 (F)	540104	WATERPROOFING AND COVER	SQFT	11,502		
194	043151	PUBLIC SAFETY PLAN	LS	LUMP SUM	LUMP SUM	
195	540108	FURNISH BRIDGE DECK TREATMENT MATERIAL	GAL	584		
196 (F)	550203	FURNISH STRUCTURAL STEEL (BRIDGE)	LB	2,168,415		
197 (F)	550204	ERECT STRUCTURAL STEEL (BRIDGE)	LB	2,168,415		
198	560203	FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	LB	10,500		
199	560204	INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	LB	10,500		
200	560218	FURNISH SIGN STRUCTURE (TRUSS)	LB	254,000		

BID ITEM LIST

08-448404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
201	560219	INSTALL SIGN STRUCTURE (TRUSS)	LB	254,000		
202	560233	FURNISH FORMED PANEL SIGN (OVERHEAD)	SQFT	3,690		
203	560245	FURNISH LAMINATED PANEL SIGN (1"-TYPE B)	SQFT	490		
204	560246	FURNISH LAMINATED PANEL SIGN (2 1/2"-TYPE B)	SQFT	180		
205	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	1,940		
206	560249	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	SQFT	1,190		
207	560251	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-FRAMED)	SQFT	250		
208	560252	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-FRAMED)	SQFT	450		
209	561014	54" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	38		
210	561016	60" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	440		
211	020846	ROADSIDE SIGN (WALL MOUNTED SIGN)	EA	17		
212	566011	ROADSIDE SIGN - ONE POST	EA	140		
213	566012	ROADSIDE SIGN - TWO POST	EA	16		
214	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	6		
215	568007	INSTALL SIGN OVERLAY	SQFT	16		
216	568023	INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST)	EA	22		
217 (F)	575004	TIMBER LAGGING	MFBM	30		
218	590115	CLEAN AND PAINT STRUCTURAL STEEL	LS	LUMP SUM	LUMP SUM	
219	597600	PREPARE AND PAINT CONCRETE	SQFT	490,000		
220	620002	6" ALTERNATIVE PIPE CULVERT	LF	23		

BID ITEM LIST**08-448404**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
221	620060	12" ALTERNATIVE PIPE CULVERT	LF	730		
222	620100	18" ALTERNATIVE PIPE CULVERT	LF	1,750		
223	620140	24" ALTERNATIVE PIPE CULVERT	LF	170		
224	620180	30" ALTERNATIVE PIPE CULVERT	LF	760		
225	620300	48" ALTERNATIVE PIPE CULVERT	LF	67		
226	020847	30" X 10" ALTERNATIVE PIPE ARCH CULVERT	LF	56		
227	650010	12" REINFORCED CONCRETE PIPE	LF	570		
228	650012	15" REINFORCED CONCRETE PIPE	LF	70		
229	650014	18" REINFORCED CONCRETE PIPE	LF	3,390		
230	650018	24" REINFORCED CONCRETE PIPE	LF	2,590		
231	650022	30" REINFORCED CONCRETE PIPE	LF	240		
232	650026	36" REINFORCED CONCRETE PIPE	LF	530		
233	650034	48" REINFORCED CONCRETE PIPE	LF	120		
234	650038	54" REINFORCED CONCRETE PIPE	LF	570		
235	650042	60" REINFORCED CONCRETE PIPE	LF	120		
236	665010	12" CORRUGATED STEEL PIPE	LF	280		
237	665016	18" CORRUGATED STEEL PIPE (.064" THICK)	LF	120		
238	665035	36" CORRUGATED STEEL PIPE (.064" THICK)	LF	36		
239	020848	21" SLOTTED CORRUGATED STEEL PIPE (.064" THICK)	LF	470		
240	665716	18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK)	LF	360		

BID ITEM LIST

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
241	665722	24" SLOTTED CORRUGATED STEEL PIPE (.064" THICK)	LF	240		
242	700617	DRAINAGE INLET MARKER	EA	16		
243	703210	12" CORRUGATED STEEL PIPE RISER (.064" THICK)	LF	95		
244	703254	48" CORRUGATED STEEL PIPE RISER (.079" THICK)	LF	23		
245	703450	WELDED STEEL PIPE CASING (BRIDGE)	LF	122		
246	705307	12" ALTERNATIVE FLARED END SECTION	LF	3		
247	020849	12" X 12" PRECAST INLET	EA	2		
248	707217	36" PRECAST CONCRETE PIPE MANHOLE	LF	90		
249	020850	MANHOLE SHAFT PIPE REDUCER	EA	13		
250	721009	ROCK SLOPE PROTECTION (FACING, METHOD B)	CY	200		
251	721011	ROCK SLOPE PROTECTION (BACKING NO. 2, METHOD B)	CY	55		
252	721024	ROCK SLOPE PROTECTION (1/4T, METHOD B)	CY	150		
253	721430	CONCRETE (CHANNEL LINING)	CY	690		
254	729010	ROCK SLOPE PROTECTION FABRIC	SQYD	870		
255	731501	MINOR CONCRETE (CURB)	CY	66		
256	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	CY	110		
257	020851	MINOR CONCRETE (CROSS GUTTER)	CY	110		
258	731504	MINOR CONCRETE (CURB AND GUTTER)	CY	680		
259	731516	MINOR CONCRETE (DRIVEWAY)	CY	140		
260 (F)	731517	MINOR CONCRETE (GUTTER)	LF	11,394		

BID ITEM LIST**08-448404**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
261	731521	MINOR CONCRETE (SIDEWALK)	CY	410		
262	731623	MINOR CONCRETE (CURB RAMP)	CY	43		
263	750001	MISCELLANEOUS IRON AND STEEL	LB	60,000		
264	020852	12" X 12" STEEL GATE	EA	2		
265	750010	MANHOLE FRAME AND COVER	EA	28		
266 (F)	750501	MISCELLANEOUS METAL (BRIDGE)	LB	6,820		
267 (F)	750505	BRIDGE DECK DRAINAGE SYSTEM	LB	12,264		
268 (F)	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	22,873		
269	020853	STEEL PICKET FENCE	LF	340		
270	800428	CHAIN LINK FENCE (TYPE CL-3.0, VINYL-CLAD)	LF	580		
271	802580	12' CHAIN LINK GATE (TYPE CL-6)	EA	19		
272	802640	18' CHAIN LINK GATE (TYPE CL-6)	EA	8		
273	810116	SURVEY MONUMENT (TYPE D)	EA	56		
274	820107	DELINEATOR (CLASS 1)	EA	54		
275	820112	MARKER (CULVERT)	EA	16		
276	820130	OBJECT MARKER	EA	15		
277	832001	METAL BEAM GUARD RAILING	LF	4,920		
278 (F)	833031	CHAIN LINK RAILING (TYPE 6)	LF	1,702		
279	020854	METAL HAND RAILING	LF	200		
280 (F)	833140	CONCRETE BARRIER (TYPE 26)	LF	1,431		

BID ITEM LIST

08-448404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
281 (F)	839521	CABLE RAILING	LF	13,552		
282	839524	GUARD POST	EA	10		
283	BLANK					
284	839541	TRANSITION RAILING (TYPE WB)	EA	14		
285	BLANK					
286	BLANK					
287	839568	TERMINAL ANCHOR ASSEMBLY (TYPE SFT)	EA	9		
288	839576	END CAP (TYPE A)	EA	2		
289	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	13		
290	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	9		
291	839601	CRASH CUSHION (TYPE CAT)	EA	1		
292	839602	CRASH CUSHION (TYPE CAT) BACKUP	EA	1		
293	839708	CONCRETE BARRIER (TYPE 60GC)	LF	660		
294	020858	CONCRETE BARRIER (TYPE 60 GE) MODIFIED	LF	180		
295	839712	CONCRETE BARRIER (TYPE 60SC)	LF	1,000		
296 (F)	839717	CONCRETE BARRIER (TYPE 732 MODIFIED)	LF	6,038		
297 (F)	839720	CONCRETE BARRIER (TYPE 732)	LF	1,995		
298	839721	CONCRETE BARRIER (TYPE 732A)	LF	11,000		
299	020859	CONCRETE BARRIER TRANSITION (TYPE 60GC TO 60SC)	LF	84		
300	839723	CONCRETE BARRIER (TYPE 732B)	LF	1,270		